PIONEER®
The Art of Entertainment

Service Manual

ORDER NO.
RRV1771

AUDIO/VIDEO STEREO RECEIVER

VSX-04

●Refer to the service manual RRV1713 for VSX-456/KUXJI.

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model	Power Requirement	Remarks
	VSX-04		
KUXJI/CA	○	AC120V	

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T-SZE MAR. 1997 Printed in Belgium

1. CONTRAST OF MISCELLANEOUS PARTS

NOTES:

- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47K ohm (tolerance is shown by J=5%, and K=10%).

560 Ω → 56 × 10^1 → 561 ..... RD1/4PU 5 6 1 J
47 kΩ → 47 × 10^3 → 473 ..... RD1/4PU 4 7 3 J
0.5 Ω → R50 ..... RN2H R 5 0 K
1 Ω → 1R0 ..... RS1P 1 R 0 K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62 kΩ → 562 × 10^1 → 5621 ..... RN1/4PC 5 6 2 1 F

CONTRAST OF VSX-04/KUXJI/CA.

VSX-04/KUXJI/CA and VSX-456/KUXJI have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		VSX-456/KUXJI	VSX-04/KUXJI/CA	
NSP	MOTHER ASSY	AWK7341	AWK7337	
	INPUT ASSY	AWZ8609	AWZ8604	
NSP	FRONT & R/C AMP ASSY	AWK7333	AWK7338	
	FL/U-COM ASSY	AWZ8594	AWZ8605	
NSP	FRONT INPUT ASSY	AWZ8596	AWZ8639	
NSP	R/C SPEAKER ASSY	AWZ8597	Not used	
NSP	COMPLEX ASSY	AWK7334	AWK7339	
NSP	FRONT SP ASSY	Not used	AWZ8500	No.1
NSP	VIDEO/SR ASSY	AWZ8601	AWZ8607	
NSP	ELITE ASSY	Not used	AWK7340	
	R/C SP (ELITE) ASSY	Not used	AWZ8608	No.2
	Jog Knob	AAB7048	AAB7121	
	Round Knob S	AAB7106	AAB7120	
	Tuner Button	AAD7326	Not used	
	Door Panel	Not used	AAK7348	No.7
	PVC Panel	Not used	AAK7355	No.8
	Sub Panel	AAP7023	AAP7030	
	Screw	Not used	ABA1007	No.11
	Screw	Not used	ABA7023	No.10
	Plate Spring	Not used	ABK7011	No.3
NSP	Alkaline Dry Cell Battery (LR6, AA)	Not used	AEX1007	
NSP	Dry Cell Battery (R6P, AA)	VEM-013	Not used	
	Packing Case	AHD7356	AHD7401	
	Mini Jack	Not used	AKN7002	For VIDEO/SR ASSY Refer to D
	Front Panel	AMB7389	AMB7420	
	Foot Assy	Not used	AMR2633	
	Insurator Assy	DXA1490	Not used	
	Insurator	PNW1912	Not used	
	Door Hinge L	Not used	AMR7171	No.4
	Door Hinge R	Not used	AMR7172	No.5
	Rear Panel	ANC7478	ANC7531	
	Door Plate	Not used	ANG7123	No.9
	Operating Instructions (English)	ARB7089	ARB7097	
	Sub Instruction Manual (ISC) (English)	Not used	ARH7015	
NSP	Warranty Card	ARY1051	Not used	

Mark	Symbol & Description	Part No.		Remarks
		VSX-456/KUXJI	VSX-04/KUXJI/CA	
NSP	Warranty Card EL	Not used	ARY7007	
⚠	Power Transformer (AC120V)	ATS7164	ATS7165	
	Damper Assy	Not used	AXA7046	No.6
	Remote Control Unit (CU-VSX113)	AXD7119	Not used	
	Remote Control Unit (CU-VSX115)	Not used	AXD7124	
	Battery Cover	AZA7123	AZN7327	

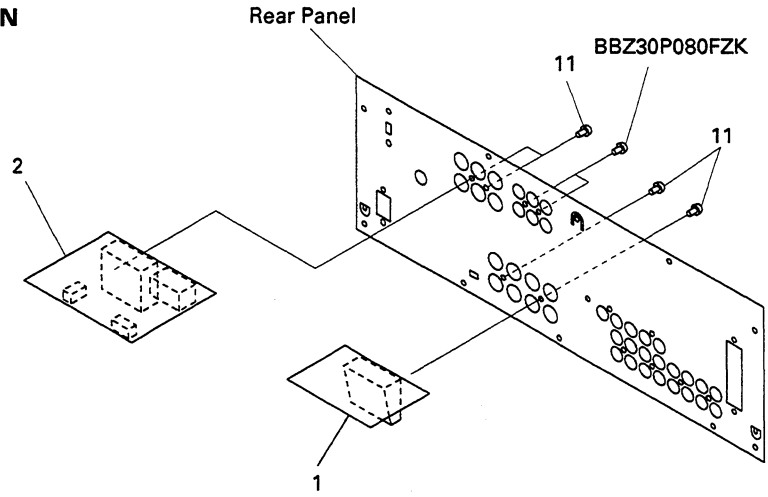
Note : The numbers in the remarks column correspond to the numbers on the exploded diagram, Refer to "EXPLODED VIEWS".

COMPLEX ASSY
- VIDEO/SR ASSY
- PRIMARY ASSY
- VOLUME ASSY
- PRO LOGIC ASSY
- FRONT SP ASSY

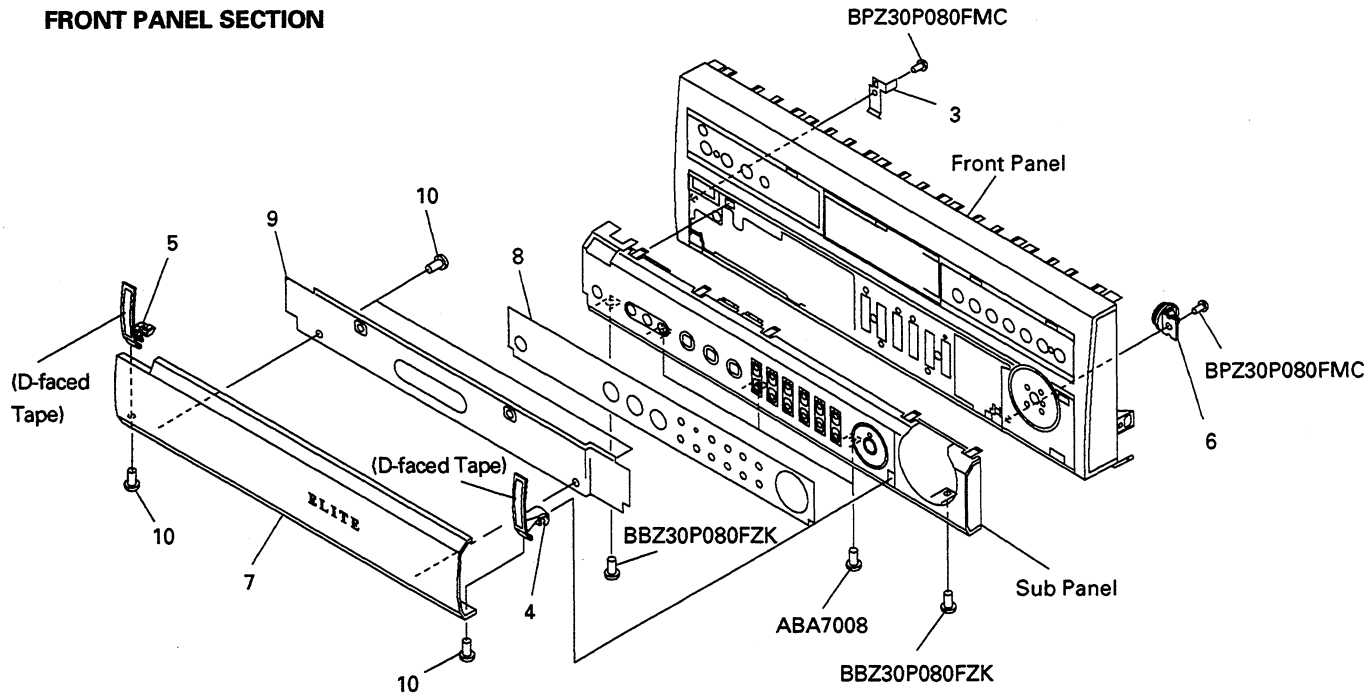
ELITE ASSY
- R/C SP (ELITE) ASSY

■ EXPLODED VIEWS

EXTERIOR SECTION



FRONT PANEL SECTION



INPUT ASSY

AWZ8604 and AWZ8609 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ8609	AWZ8604	
	Q403, Q404	Not used	2SC2878	
	Q405—Q408	Not used	2SK246	
	Q409	Not used	KRA103M	
	Q410, Q411	Not used	KRC103M	
	D409—D412	Not used	1SS252	
	C495	CGCYX104M12	CGCYX104M16	
	R465, R468	Not used	RD1/4PU102J	
	R466, R467	Not used	RD1/4PU223J	
	R469, R470	Not used	RD1/4PU122J	
	R473, R474	Not used	RD1/4PU472J	
	CN201 SPEAKER TERMINAL 8-P	AKE7006	Not used	
	CN404 PIN JACK (4P)	AKB7015	Not used	
	CN404 PIN JACK (6P)	Not used	AKB7012	
NSP	CN203 CONNECTOR (6P)	Not used	KPD6	
NSP	CN220 CONNECTOR (4P)	KPD4	Not used	
NSP	J26 JUMPER WIRE	Not used	DYY08-100-2651	
	CABLE HOLDER (8P)	Not used	51052-0800	

FL/U-COM ASSY

AWZ8605 and AWZ8594 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ8594	AWZ8605	
	D922	Not used	1SS252	
	S918	Not used	ASG1034	
	S922	ASX7001	ASX7009	
	R927—R929	Not used	RD1/4PU102J	
	VR1901, VR1902 (100kΩ)	ACS7020	ACS7021	
	VR1903 (500kΩ x 1)	ACS1016	ACS7022	
NSP	J13 JUMPER WIRE	D15A07-600-2651	D15A12-600-2651	

VIDEO/SR ASSY

AWZ8607 and AWZ8601 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ8601	AWZ8607	
	IC1853	Not used	NJM78L05A	
	Q1801	Not used	2SA933S	
	Q1851	Not used	2SC1740S	
	D1801, D1802	Not used	1SS252	
	D1803, D1804	Not used	1SS254	
	C1851	Not used	CEAS470M25	
	C1852	Not used	CEAS471M6R3	
	C1861	Not used	CEAS101M16	
	C1862	Not used	CKCYF103Z50	
	C1863	Not used	CEAS101M10	
	R1801, R1802	Not used	RD1/4PU224J	
	R1803, R1805, R1855	Not used	RD1/4PU102J	
	R1804, R1852	Not used	RD1/4PU103J	
	R1851	Not used	RD1/4PU680J	
	R1853	Not used	RD1/4PM331J	
	CN802 CONNECTOR (7P)	KPE7	Not used	
	CN802 CONNECTOR (12P)	Not used	KPE12	
	PIN JACK (3P)	Not used	AKB7018	
	PIN JACK (2P)	AKB7016	Not used	

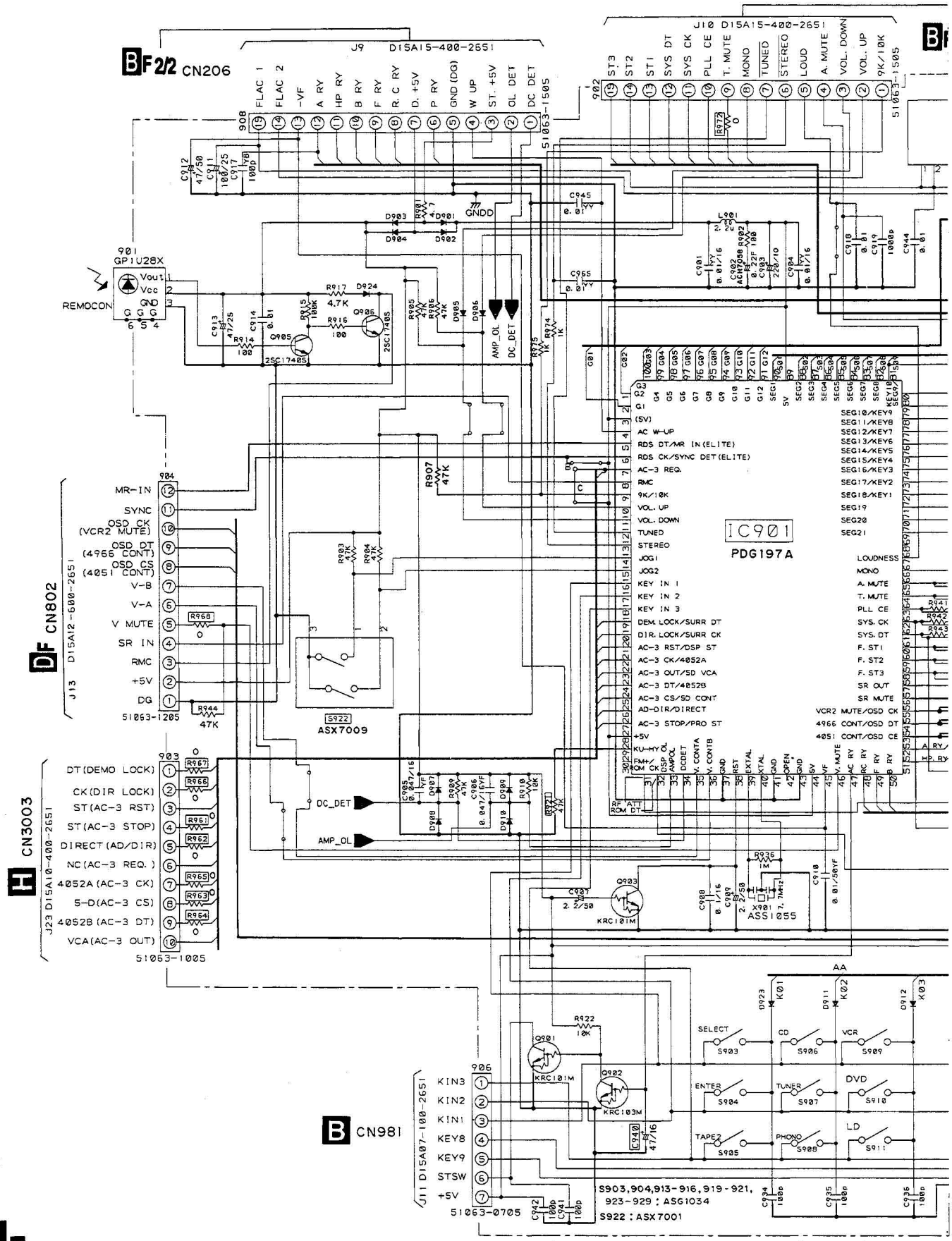
■ PCB PARTS LIST

Mark	No.	Description	Parts No.
EF FRONT SP ASSY			
OTHERS			
		CABLE HOLDER 4P	51052-0400
	CN1201	SPEAKER TERMINAL 8P	AKE7036
CF R/C SP (ELITE) ASSY			
SEMICONDUCTORS			
	Q151		2SC1740S
	Q161-Q163		2SC2878
	D151, D152		1SS252
COILS AND FILTERS			
	L154-L156 (0.7µH)		ATH1004
SWITCHES AND RELAYS			
	RY151, RY152		ASR7001
CAPACITORS			
	C161, C163, C165		CFTXA473J50
RESISTORS			
⚠	R183-R185		RD1/4PMF100J
	R186-R188		RS1LMF100J
	Other Resistors		RD1/4PU□□□J

Mark	No.	Description	Parts No.
OTHERS			
		CABLE HOLDER 6P	51052-0600
	CN152	PIN JACK 6P	AKB7084
	CN151	SPEAKER TERMINAL 6P	AKE7037
FF FRONT INPUT ASSY			
RESISTORS			
	R3991, R3992		RS2LMF331J
OTHERS			
	CN3991	HEADPHONE JACK	AKN7001

2. SCHEMATIC DIAGRAM

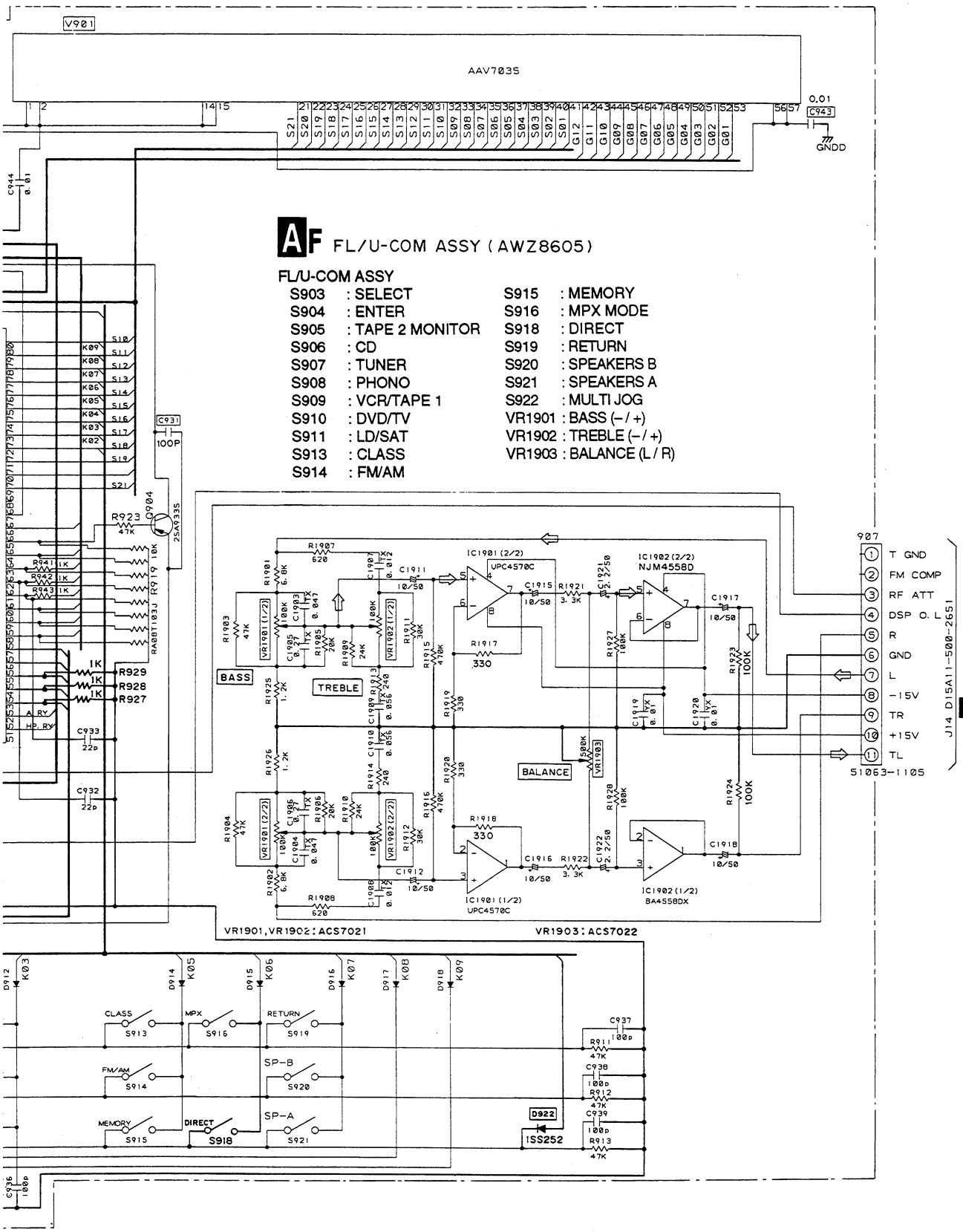
2.1 FL/U-COM ASSY



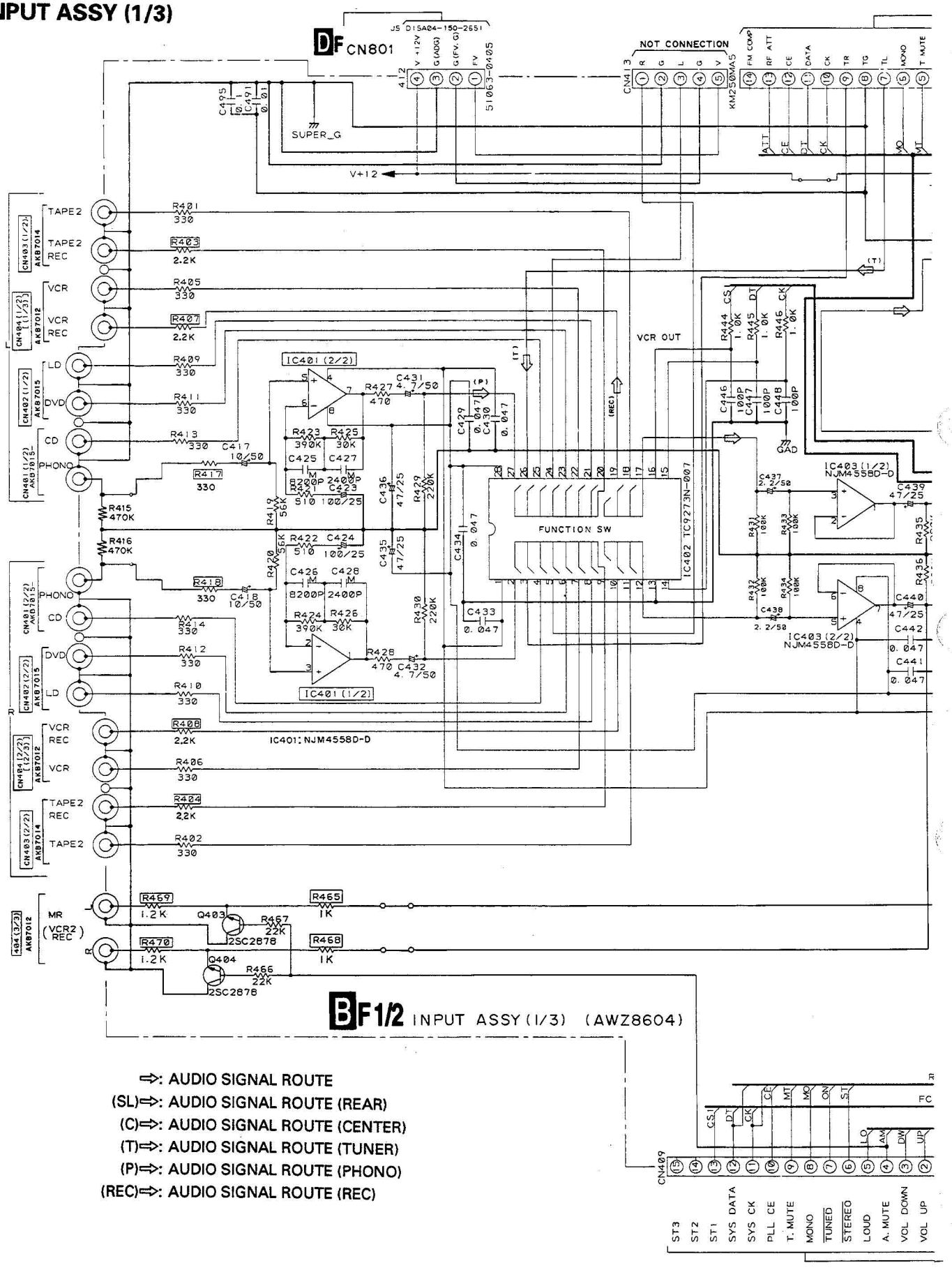
NOTE: When ordering service parts, be sure to refer to "PARTS LIST of EXPLODED VIEWS" or "PCB PARTS LIST".

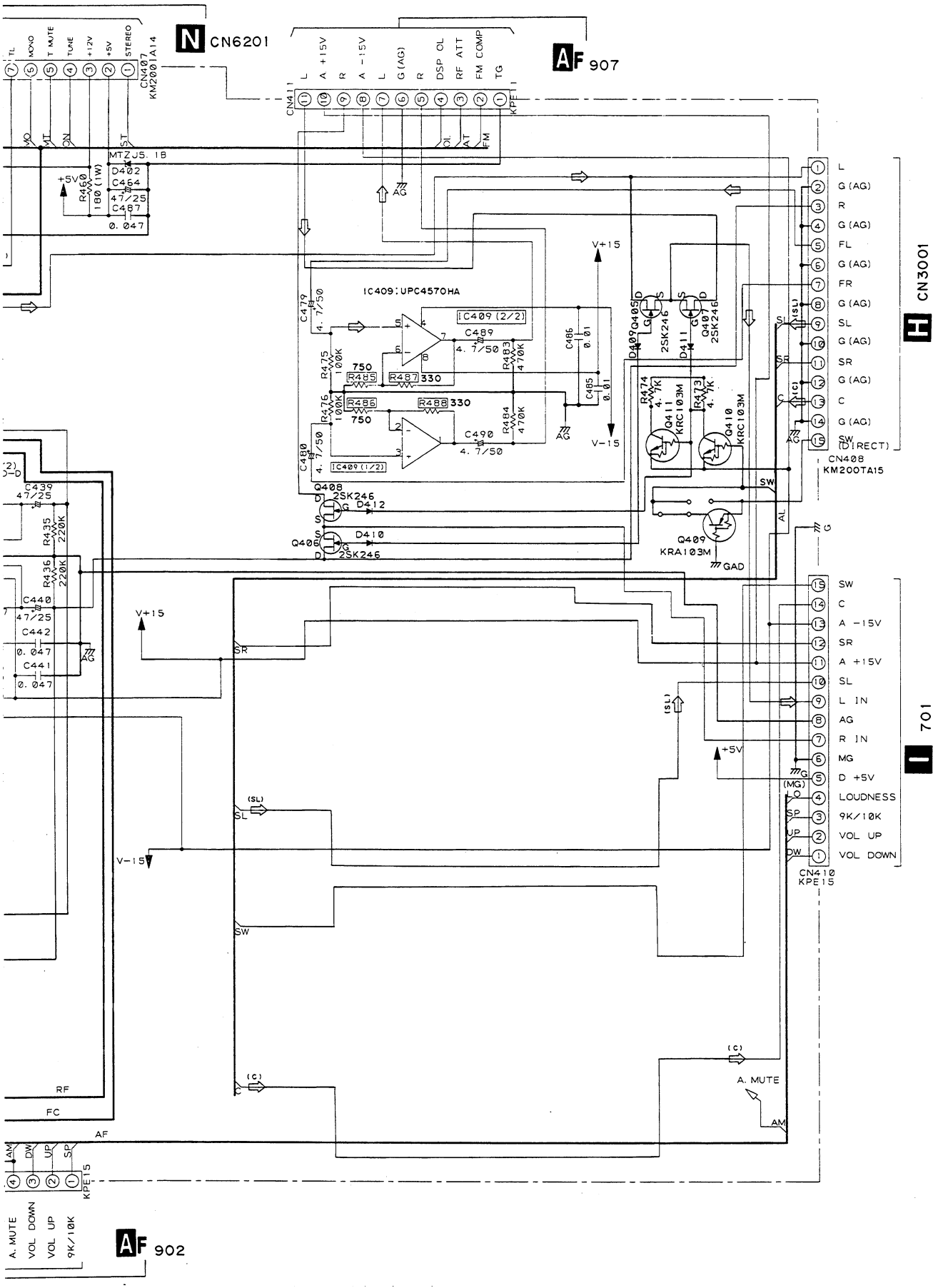
⇨:AUDIO SIGNAL ROUTE

BF1/2 CN409



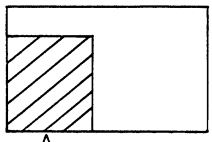
2.2 INPUT ASSY (1/3)



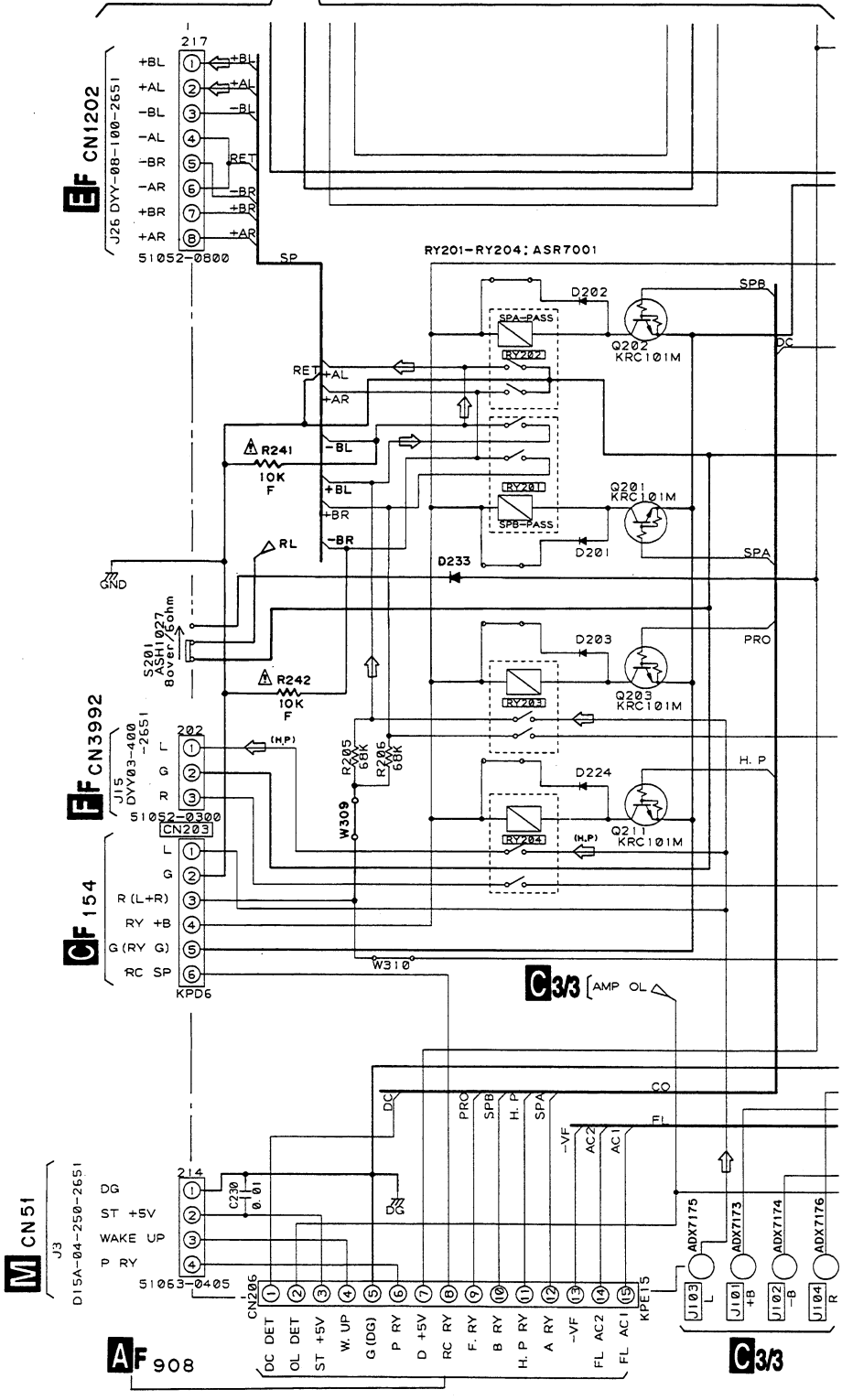

N CN6201
CN407
KM2001A14
TL
MONO
T MUTE
TUNE
+12V
+5V
STEREO
AF 907
CN411
L
A +15V
R
A -15V
L
G (AG)
R
DSP OL
RF ATT
FM COMP
TG
KPE11
MTZJ5.1B
D402
C454
47/25
C487
0.047
R460
100 (1W)
+5V
AG
IC409: UPC4570HA
IC409 (2/2)
IC409 (1/2)
C479
4.7/50
C489
4.7/50
C490
4.7/50
C486
0.01
C485
0.01
R475
100K
R476
100K
R485
750
R486
750
R487
330
R488
330
R483
470K
R484
470K
V+15
V-15
Q405
2SK246
Q407
2SK246
D411
D412
D410
Q408
2SK246
Q409
2SK246
R474
4.7K
R473
4.7K
Q411
KRC103M
Q410
KRC103M
Q409
KRA103M
GAD
C439
47/25
C440
47/25
C442
0.047
C441
0.047
R435
220K
R436
220K
SR
SL
SW
AL
(SL)
(C)
(MG)
+5V
A. MUTE
AM
RF
FC
AF
CN3001
H
L
G (AG)
R
G (AG)
FL
G (AG)
FR
G (AG)
SL
G (AG)
SR
G (AG)
C
G (AG)
SW (DIRECT)
CN408
KM200TA15
701
I
SW
C
A -15V
SR
A +15V
SL
L IN
AG
R IN
MG
D +5V
LOUDNESS
9K/10K
VOL UP
VOL DOWN
CN410
KPE15
KPE15
AM
DW
UP
SP
A. MUTE
VOL DOWN
VOL UP
9K/10K
AF 902

2.3 INPUT ASSY (2/3)

BF2/2 INPUT ASSY(2/3)
(AWZ8604)

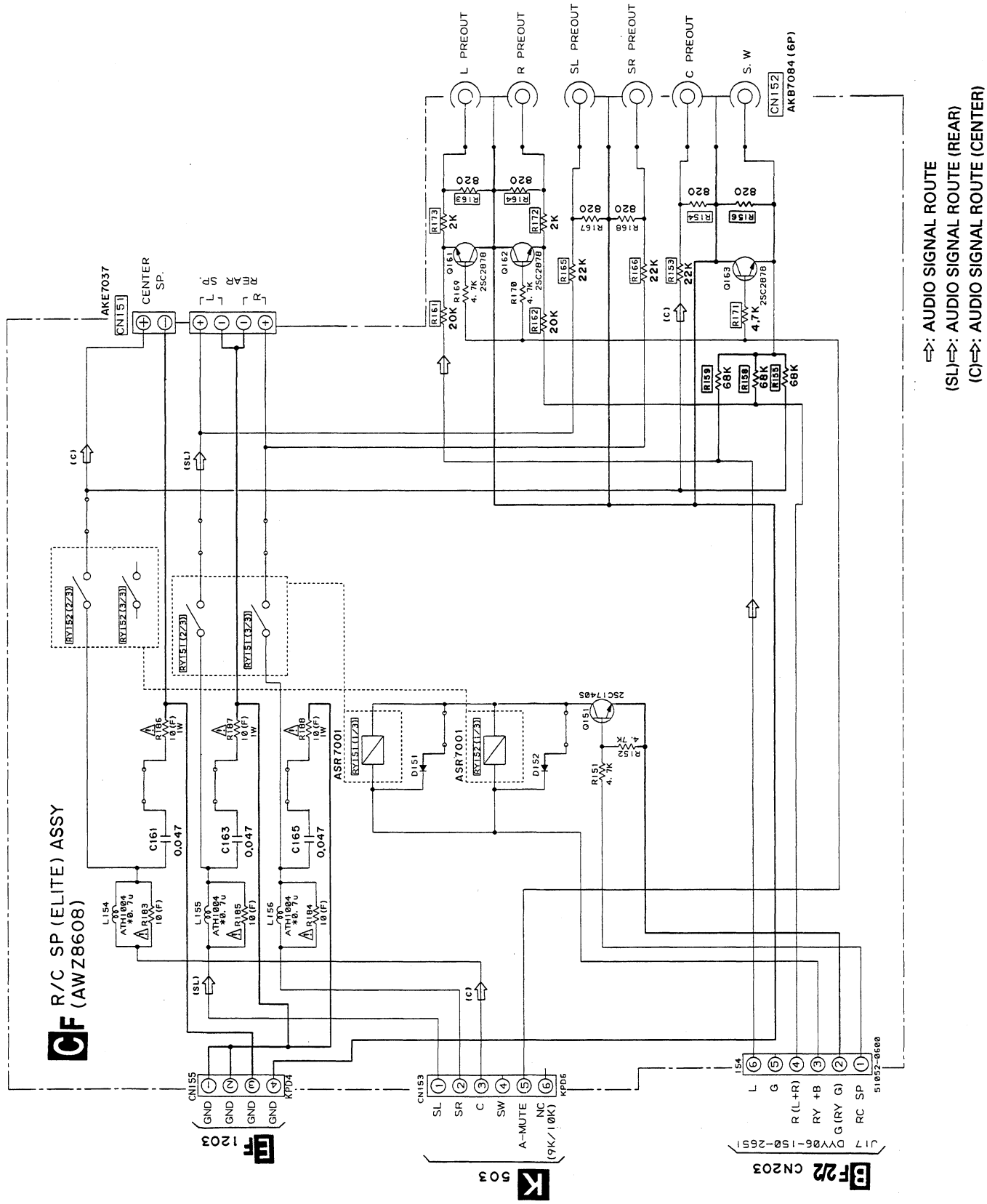


• For the schematic diagram, only the differences compared with VSX-456/KUXJI

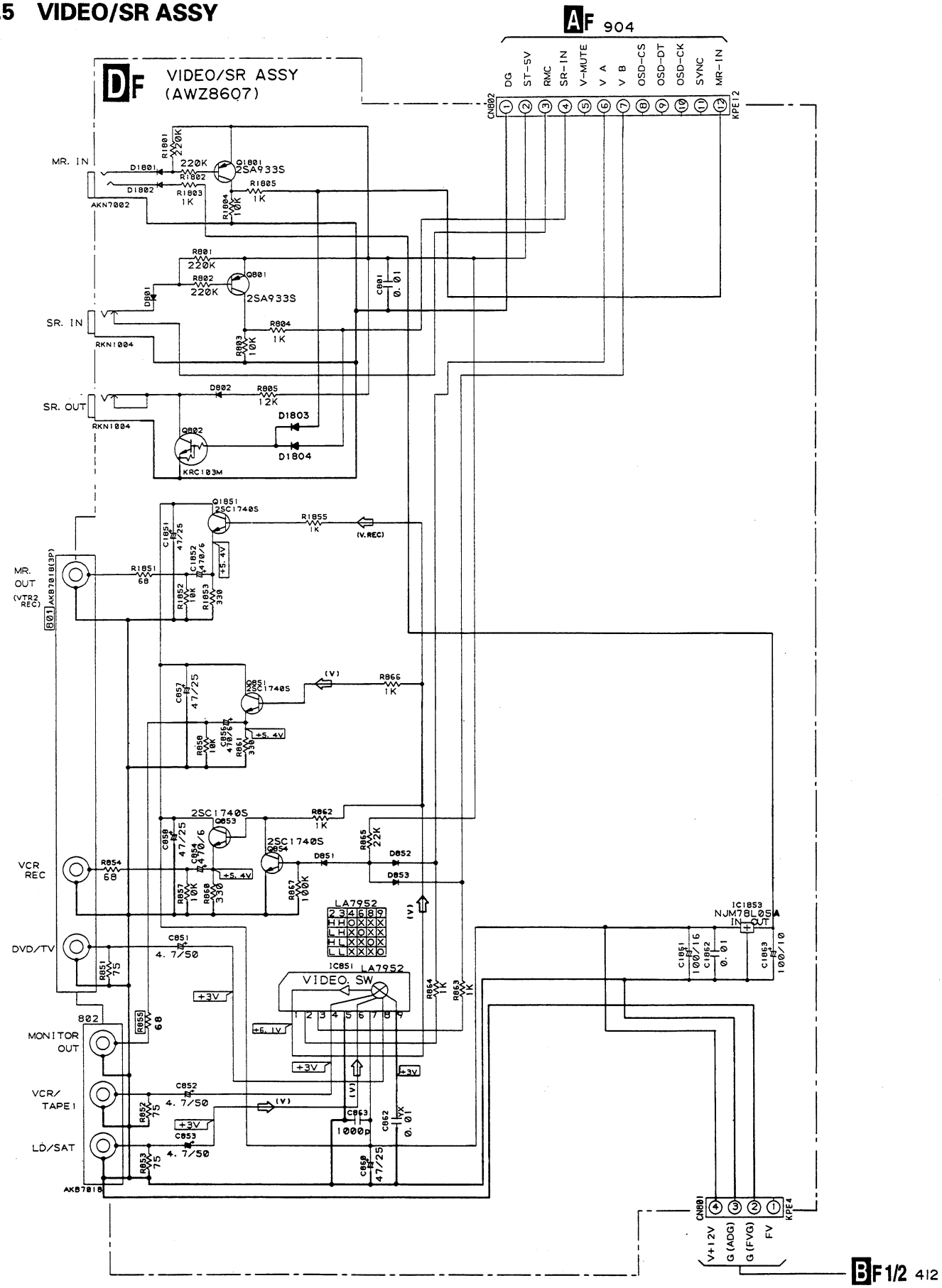


INPUT ASSY
S201 : IMPEDANCE SELECTOR

2.4 R/C SP (ELITE) ASSY



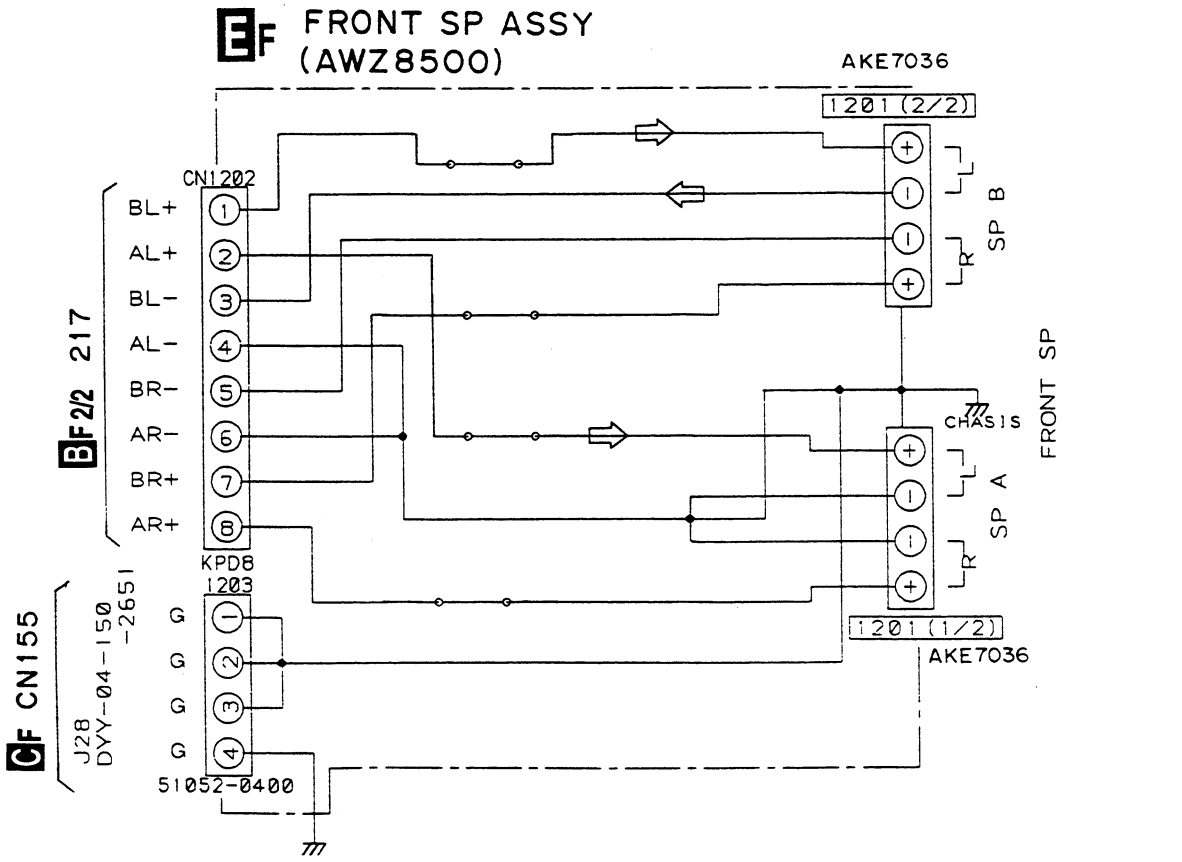
2.5 VIDEO/SR ASSY

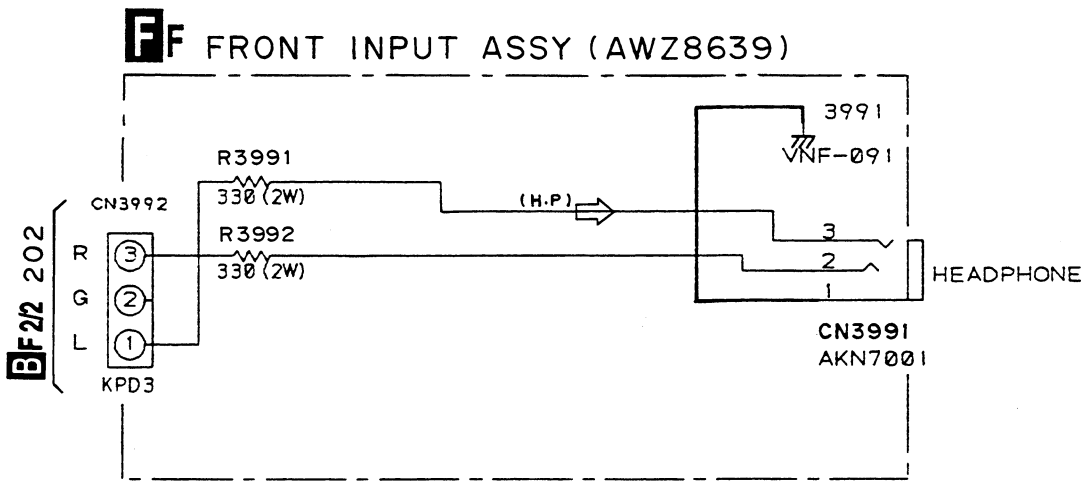


(V)⇨: VIDEO SIGNAL ROUTE
(V.REC)⇨: VIDEO REC SIGNAL ROUTE

2.6 FRONT SP ASSY AND FRONT INPUT ASSY

(H.P)⇨: AUDIO SIGNAL ROUTE (HEADPHONE)
⇨: AUDIO SIGNAL ROUTE





3. PCB CONNECTION DIAGRAM

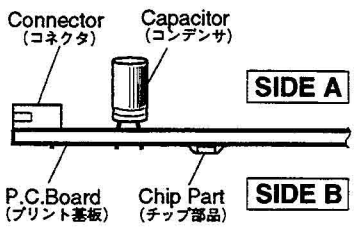
3.1 FRONT INPUT ASSY, FRONT SP ASSY AND R/C SP (ELITE) ASSY

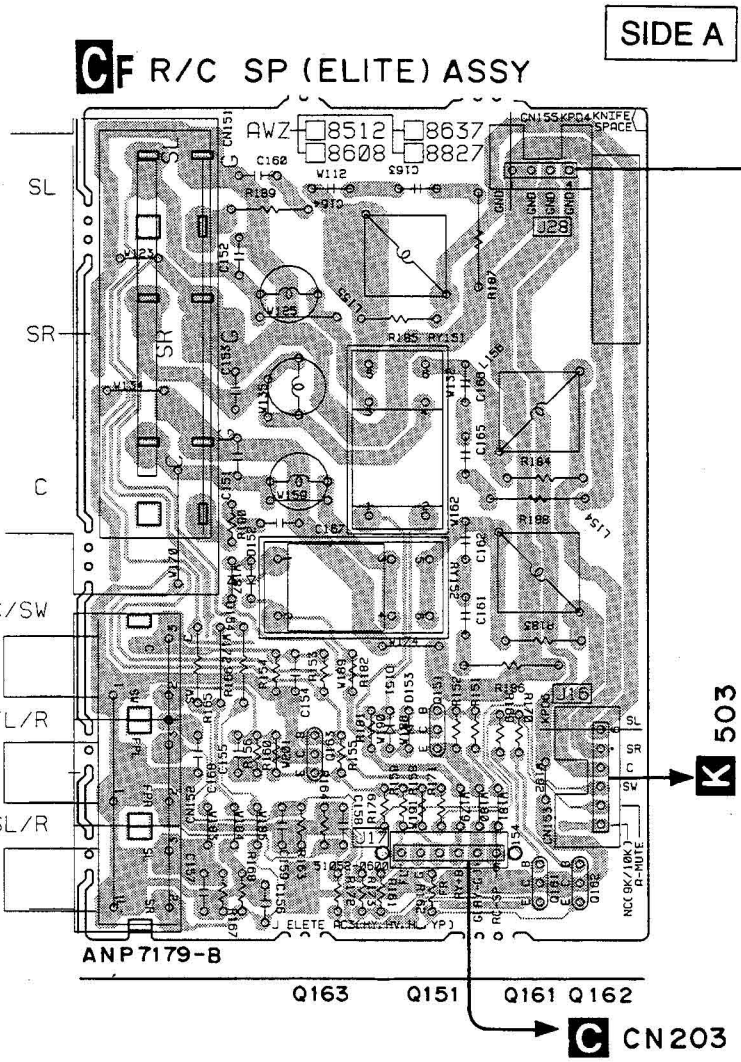
NOTE FOR PCB DIAGRAMS:

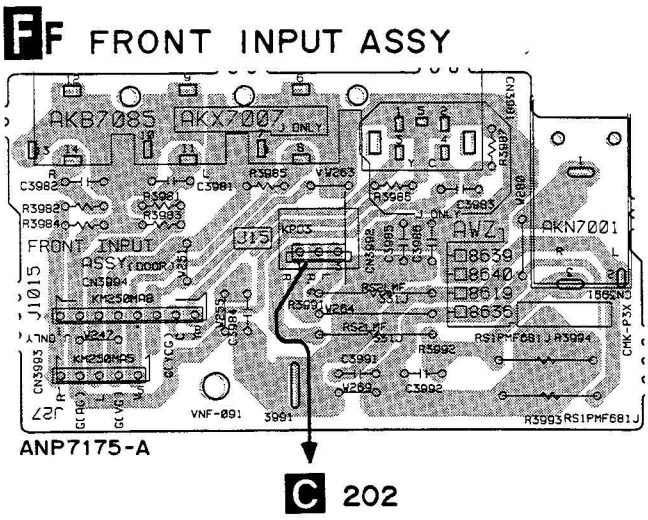
1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

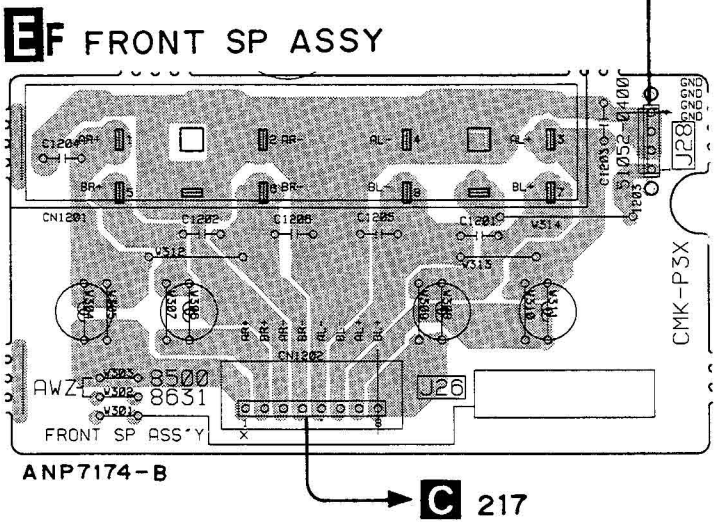
Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
B C E	B C E B C E	Transistor
B C E	B C E B C E	Transistor with resistor
D G S	D G S D G S	Field effect transistor
		Resistor array
		3-terminal regulator

3. The parts mounted on this PCB include all necessary parts for several destinations. For further infromation for respective destinations, be sure to check with the schematic diagram.
4. Viewpoint of PCB diagrams





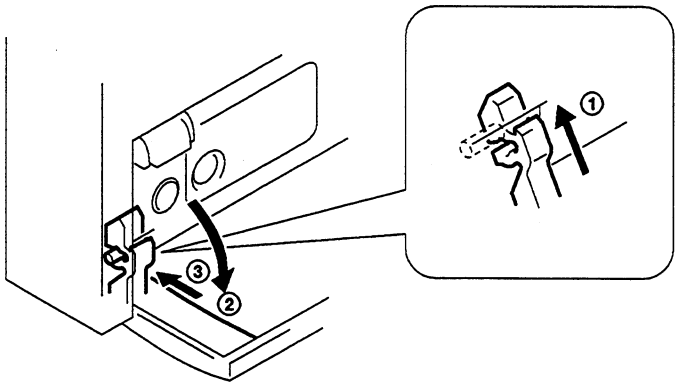




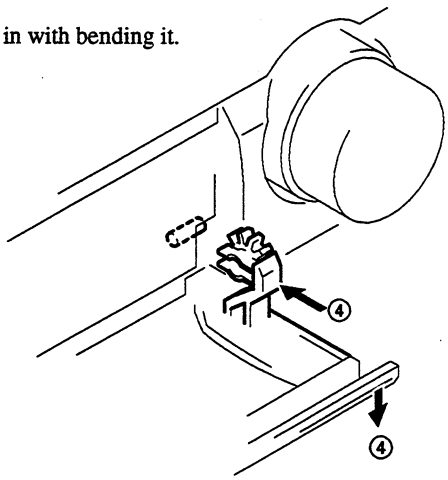
4. GENERAL INFORMATION

4.1 ATTACHING THE DOOR PANEL

① Slide the Door Panel slantways.
② Rotate it so that it is horizontal.
③ Push it straight in.



④ Move it downwards a little, and push in with bending it.



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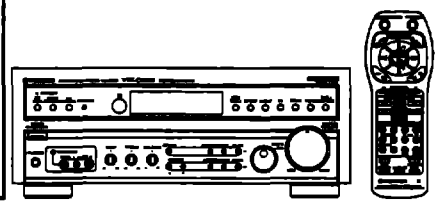
Service Manual



ORDER NO.
RRV1713

AUDIO/VIDEO STEREO RECEIVER

VSX-D506S
VSX-456

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model		Power Requirement	Remarks
	VSX-D506S	VSX-456		
KUXJ I	O	O	AC120V	
KCXJ I	O	O	AC120V	

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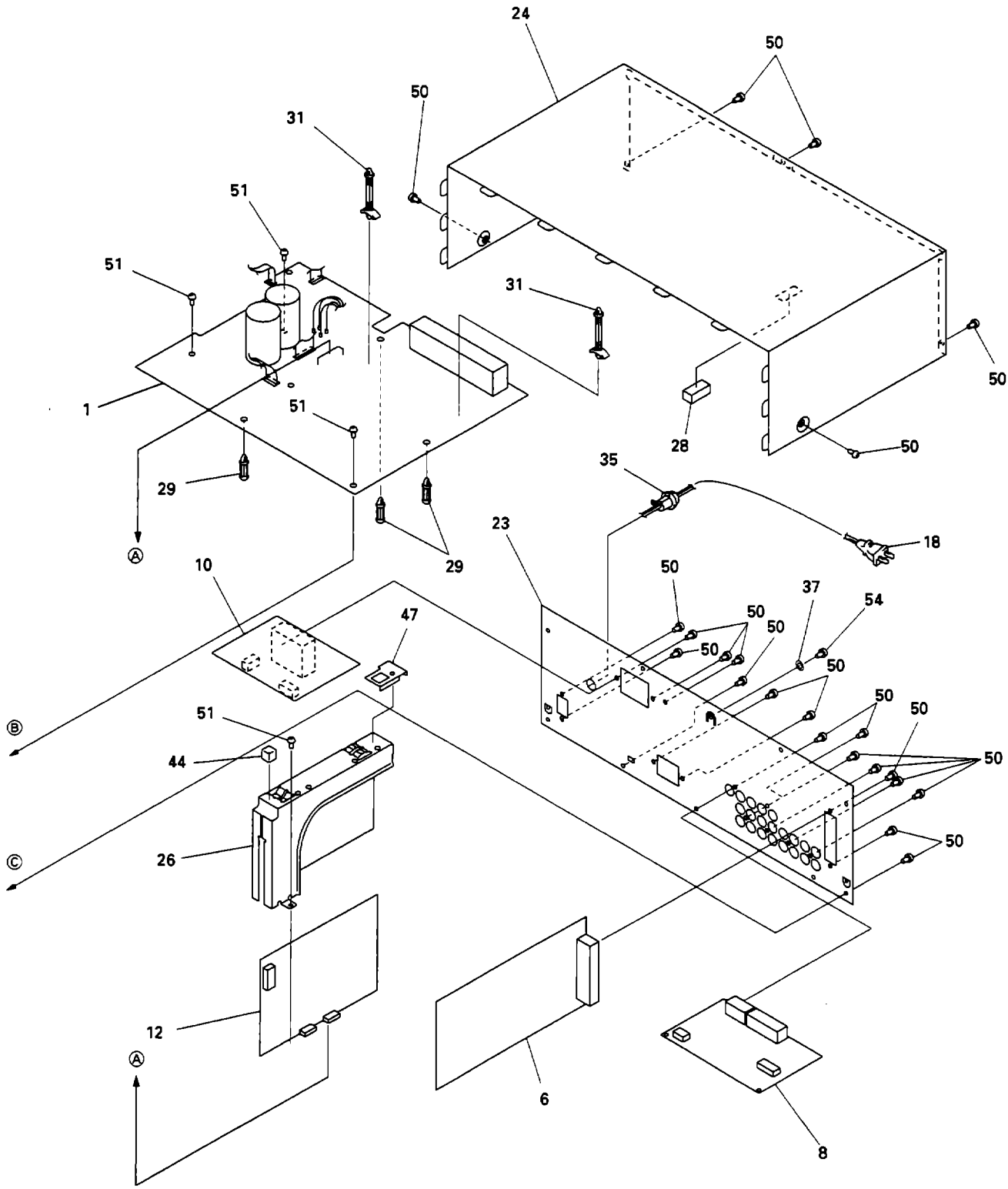
24
50
50
31
51
51
31
50
1
51
28
50
29
35
29
23
18
10
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37
54
47
50
50
50
50
50
50
51
50
44
50
26
12
6
8

1. SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING
Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health & Safety Code, Section 25249.5).
When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

NOTICE
(FOR CANADIAN MODEL ONLY)
Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE
(POUR MODÈLE CANADIEN SEULEMENT)
Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

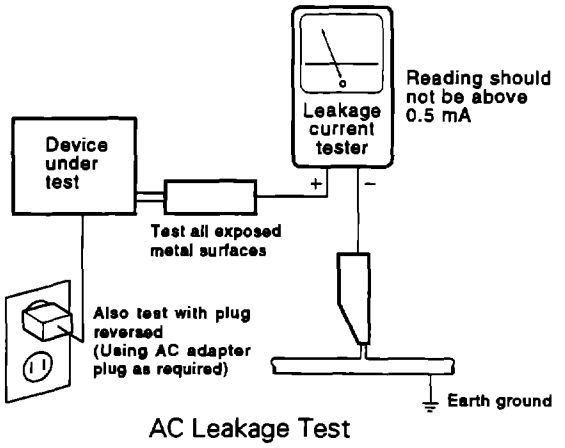
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.


Leakage current tester
Reading should not be above 0.5 mA
Device under test
+
−
Test all exposed metal surfaces
Also test with plug reversed (Using AC adapter plug as required)
Earth ground

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage , etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

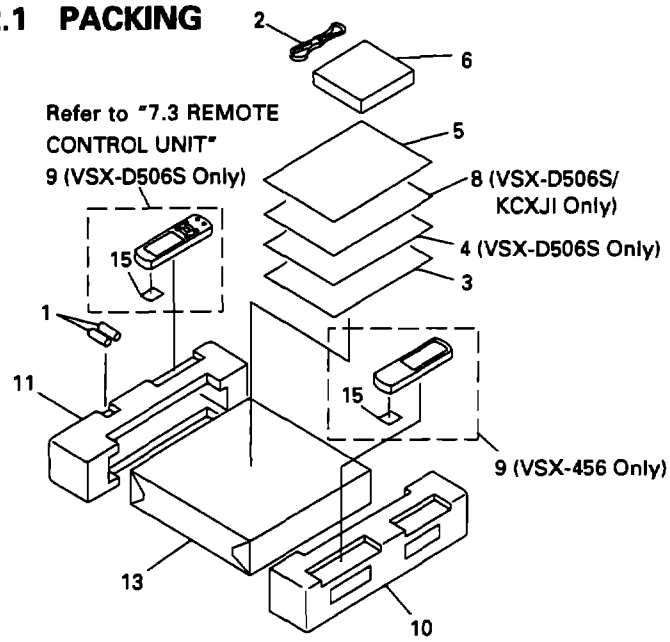
Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.
The use of a substitute replacement component which dose not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

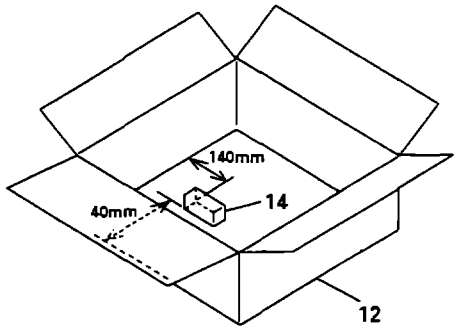
Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

2. EXPLODED VIEWS AND PARTS LIST

NOTES: • *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
• *The ⚠ mark found on some component parts indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use parts of identical designation.*
• *Screws adjacent to ▼ mark on the product are used for disassembly.*

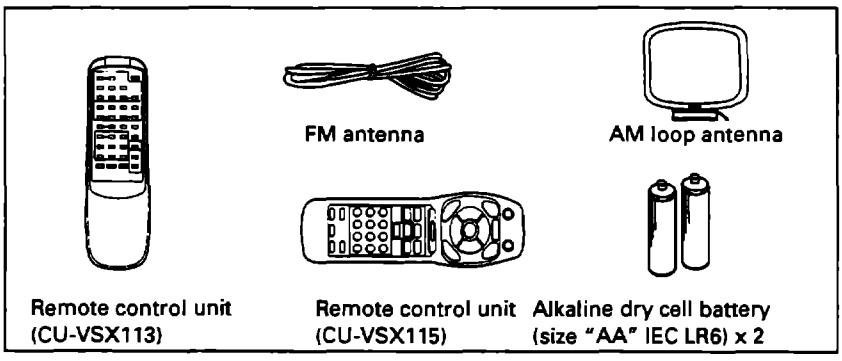
2.1 PACKING





(1) PARTS LIST

Mark	No.	Description	Parts No.
NSP	1	Dry Cell Battery	See Contrast table (2)
	2	FM Antenna	ADH7004
	3	Operating Instructions	See Contrast table (2)
	4	Sub Instruction Manual (English)	See Contrast table (2)
NSP	5	Warranty Card	See Contrast table (2)
	6	AM Loop Antenna	ATB7009
	7	.....	
	8	Operating Instructions (French)	See Contrast table (2)
	9	Remote Control Unit	See Contrast table (2)
	10	Front Pad	AHA7137
	11	Rear Pad	AHA7140
	12	Packing Case	See Contrast table (2)
	13	Packing Sheet	AHG7010
	14	Sub Pad B	AHB7027
	15	Battery Cover	See Contrast table (2)

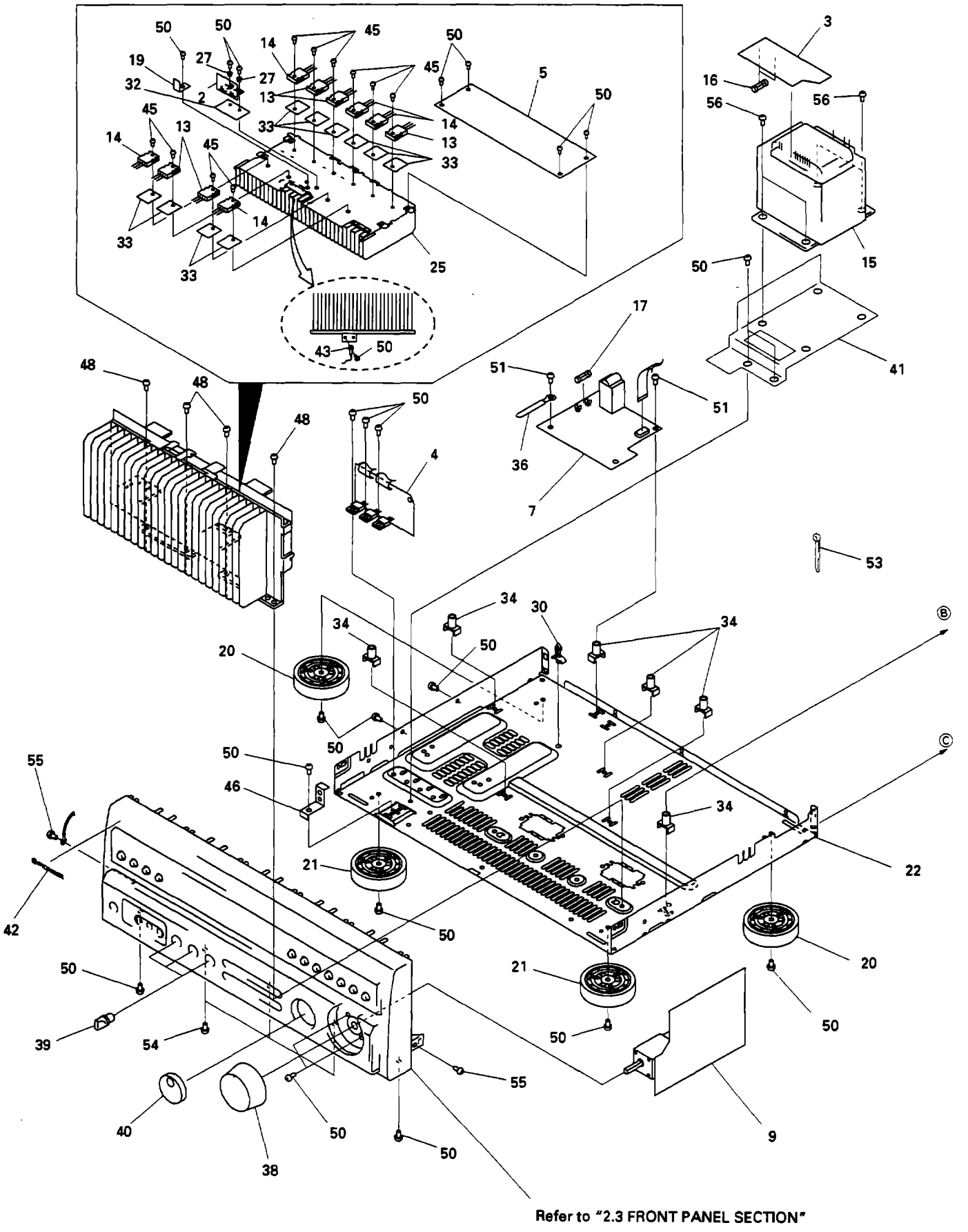

FM antenna
AM loop antenna
Remote control unit (CU-VSX113)
Remote control unit (CU-VSX115)
Alkaline dry cell battery (size "AA" IEC LR6) x 2

(2) CONTRAST TABLE

VSX-D506S/KCXJI, VSX-456/KUXJI, KCXJI and VSX-D506S/KUXJI have the same construction except for the following :

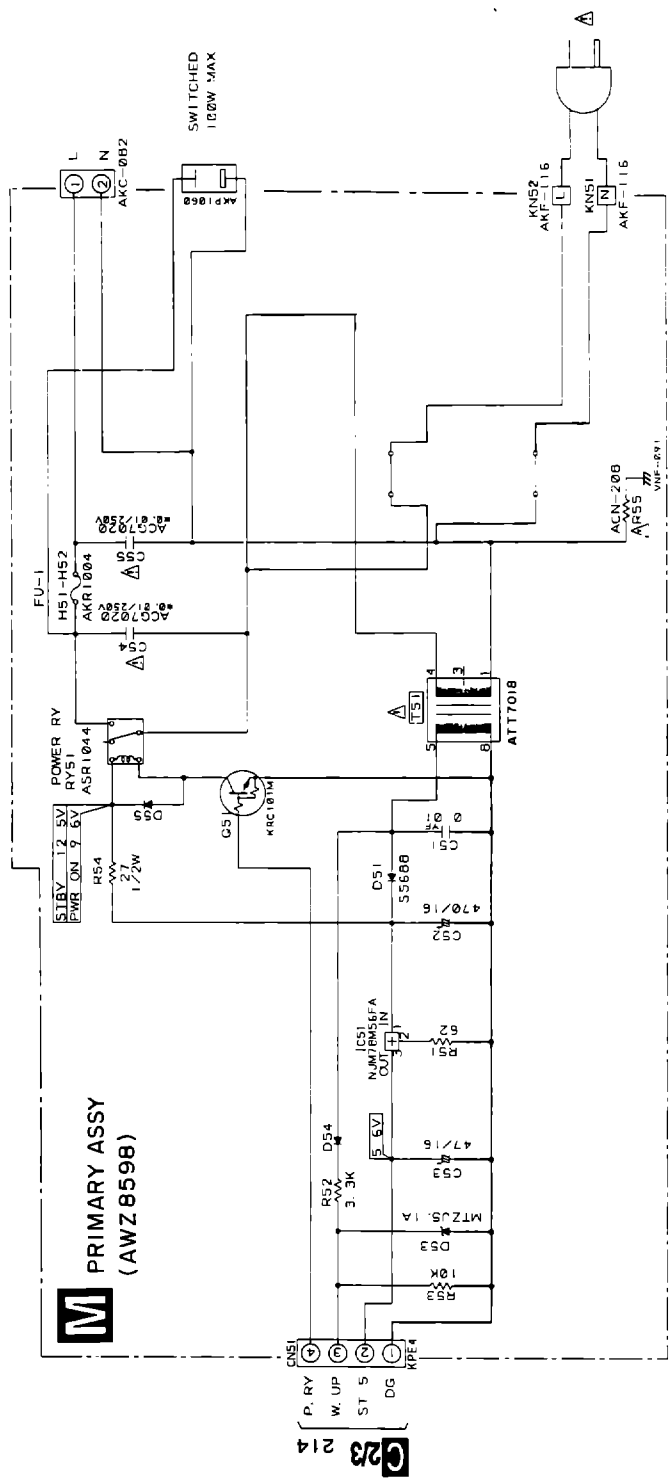
Mark	No.	Srmbol & Description	Part No.				Remarks
			VSX-D506S		VSX-456		
			KUXJI	KCXJI	KUXJI	KCXJI	
NSP	1	Alkaline Dry Cell Battery (LR6,AA)	AEX1007	AEX1007	Not used	Not used	
NSP	1	Dry Cell Battery (R6P,AA)	Not used	Not used	VEM-013	VEM-013	
	3	Operating Instructions (English)	ARB7091	ARB7091	ARB7089	Not used	
	3	Operating Instructions (English/French)	Not used	Not used	Not used	ARE7098	
	4	Sub Operating Instructions (English)	ARH7015	ARH7015	Not used	Not used	
NSP	5	Warranty Card	ARY1051	ARY1075	ARY1051	ARY1075	
	8	Operating Instructions (French)	Not used	ARC7141	Not used	Not used	
	9	Remote Control Unit (CU-VSX115)	AXD7124	AXD7124	Not used	Not used	
	9	Remote Control Unit (CU-VSX113)	Not used	Not used	AXD7119	AXD7119	
	12	Packing Case	AHD7357	AHD7357	AHD7356	AHD7356	
	15	Battery Cover	AZN7327	AZN7327	AZA7123	AZA7123	

2.2 EXTERIOR

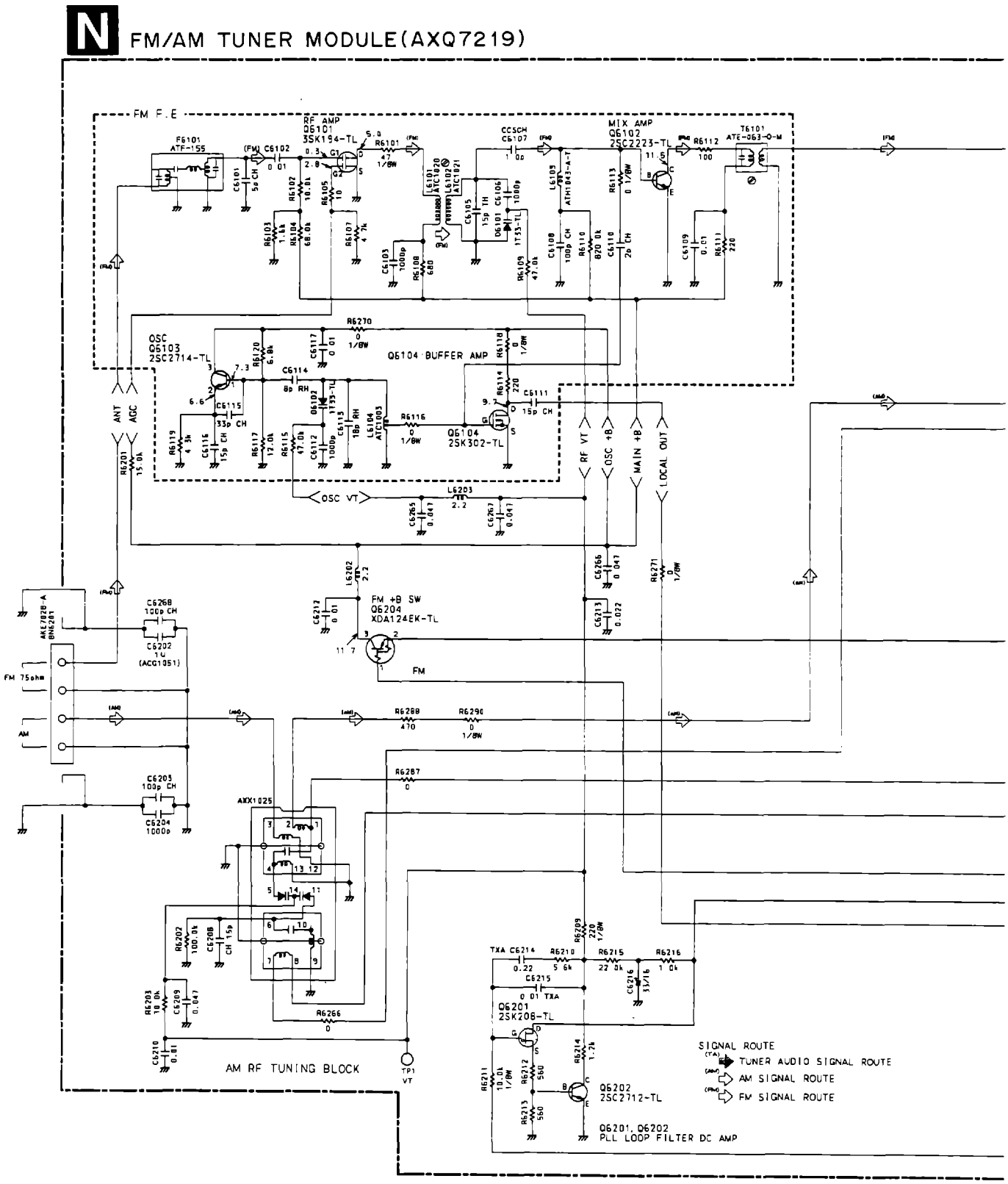


● NOTE FOR FUSE REPLACEMENT

CAUTION – FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE AND RATINGS ONLY.



3.11 FM/AM TUNER MODULE



VSX-D506S, VSX-456

(1) PARTS LIST

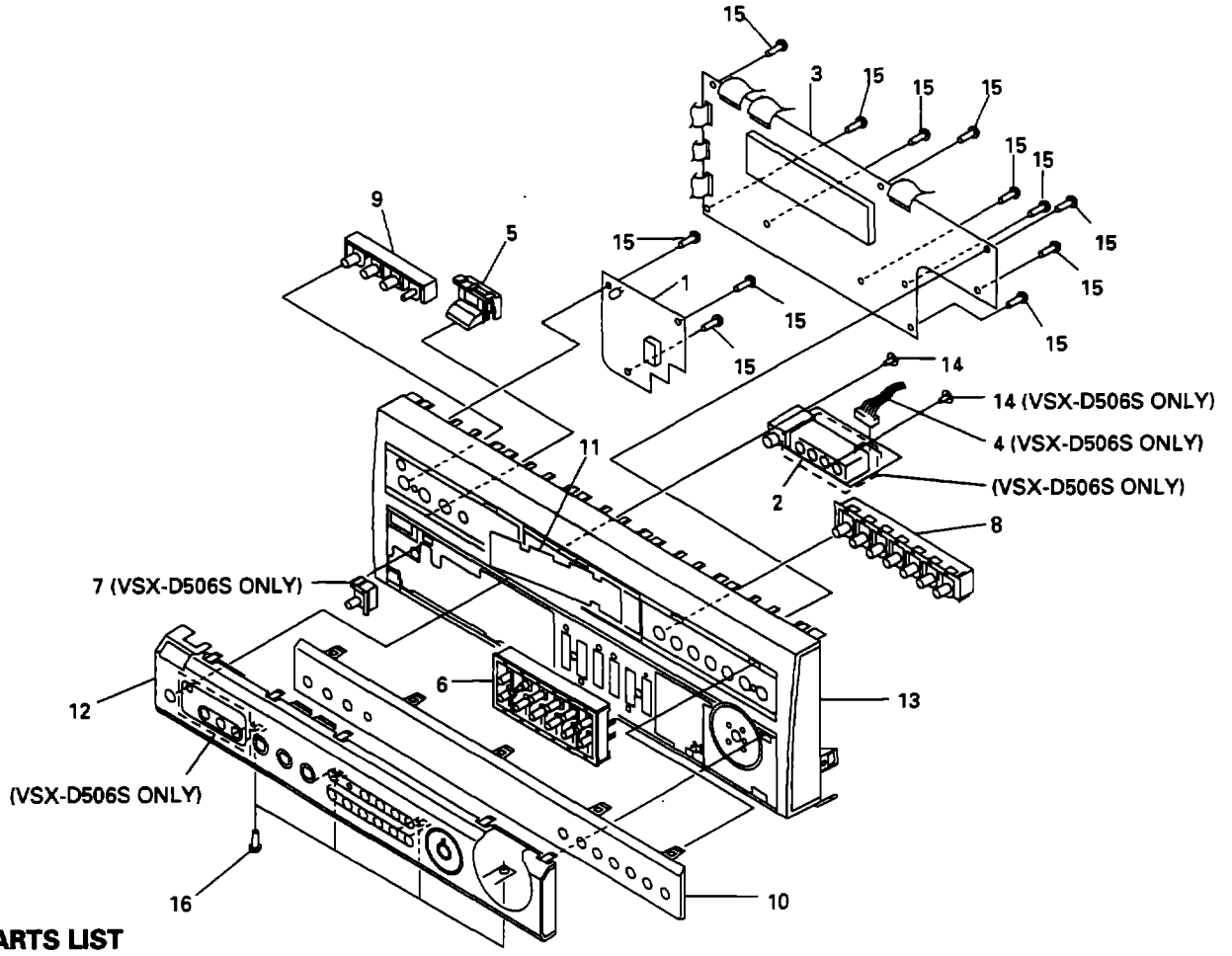
Mark	No.	Description	Parts No.
	1	INPUT ASSY	AWZ8609
NSP	2	MOS FET ASSY	AWZ8497
	3	TRANS ASSY	AWZ8593
	4	REG.1 ASSY	AWZ8599
	5	R/C AMP ASSY	AWZ8805
	6	FM/AM TUNER MOJULE	AXQ7219
NSP	7	PRIMARY ASSY	AWZ8598
	8	VIDEO/SR ASSY	See Contrast table (2)
	9	VOLUME ASSY	AWZ8600
	10	R/C SPEAKER ASSY	AWZ8597
	11	.....	
	12	PRO LOGIC ASSY	See Contrast table (2)
⚠	13	Transistor	2SA1962
⚠	14	Transistor	2SC5242
⚠	15	Power Transformer (AC 120V)	See Contrast table (2)
⚠	16	Fuse (FU3, FU4 : 1.6A)	REK1077
⚠	17	Fuse (FU1 : 6.3A)	REK1085
⚠	18	AC Power Cord	PDG1015
	19	FET Plate	ANG7124
	20	Insulator Assy	DXA1490
	21	Insulator	PNW1912
	22	Chassis	ANA7052
	23	Rear Panel	See Contrast table (2)
	24	Bonnet Case	ANE7136
	25	Radiator	ANH7050
	26	Shield Case	ANK7032
NSP	27	Bushing	AEC1402
NSP	28	Cushion	AEB7076
	29	PCB Support	AEC1581
	30	PCB Support	AEC7006
	31	PCB Support	AEC7056
	32	Sheet	AEE1028
	33	Sheet	AEE7010
	34	PCB Mold	AMR2533
	35	Cord Stopper	CM-22C
NSP	36	Clamper	RNE1277
	37	Washer	VEC1254
	38	Round Knob L	AAB7082
	39	Round Knob S	AAB7106
	40	Jog Knob	AAB7048
	41	Trans Flame	ANG7140
	42	Name Plate	PAM1608
NSP	43	Cord with Plug (J105)	DE012CD0
NSP	44	Cushion	AEB7081
	45	Screw	ABA1037
	46	PCB Stopper	ANG7136
	47	ISO Plate	ANG7141
	48	Screw	ABA7019
	49	.....	
	50	Screw	BBZ30P080FZK
	51	Screw	BBZ30P200FMC
	52	.....	
NSP	53	Binder	ZCA-BK1
	54	Screw	ABA7008
	55	Screw	ABA-298
	56	Screw	ABA1147

(2) CONTRAST TABLE

VSX-D506S/KCXJI, VSX-456/KUXJI, KCXJI and VSX-D506S/KUXJI have the same construction except for the following :

Mark	No.	Srmbol & Description	Part No.				Remarks
			VSX-D506S		VSX-456		
			KUXJI	KCXJI	KUXJI	KCXJI	
	8	VIDEO/SR ASSY	AWZ8509	AWZ8509	AWZ8601	AWZ8601	
	12	PRO LOGIC ASSY	AWZ8611	AWZ8611	AWZ8510	AWZ8510	
⚠	15	Power Transformer (AC 120V)	ATS7164	ATS7165	ATS7164	ATS7165	
	23	Rear Panel	ANC7479	ANC7526	ANC7478	ANC7528	

2.3 FRONT PANEL SECTION



• PARTS LIST

Mark	No.	Description	Parts No.
NSP	1	Power Switch ASSY	See Contrast table (2)
NSP	2	Front Input ASSY	See Contrast table (2)
	3	FL U-COM ASSY	See Contrast table (2)
NSP	4	Housing 5P Shield	See Contrast table (2)
	5	Power Button	AAD7325
	6	Tuner Button	AAD7326
	7	Input Button	See Contrast table (2)
	8	Func. Button	AAD7328
	9	SFC Button	AAD7329
	10	FL Panel	AAK7293
	11	FL Filter	AAK7294
	12	Sub Panel	See Contrast table (2)
	13	Front Panel	See Contrast table (2)
	14	Screw	See Contrast table (2)
	15	Screw	BPZ30P080FMC
	16	Screw	BBZ30P080FZK

(2) CONTRAST TABLE

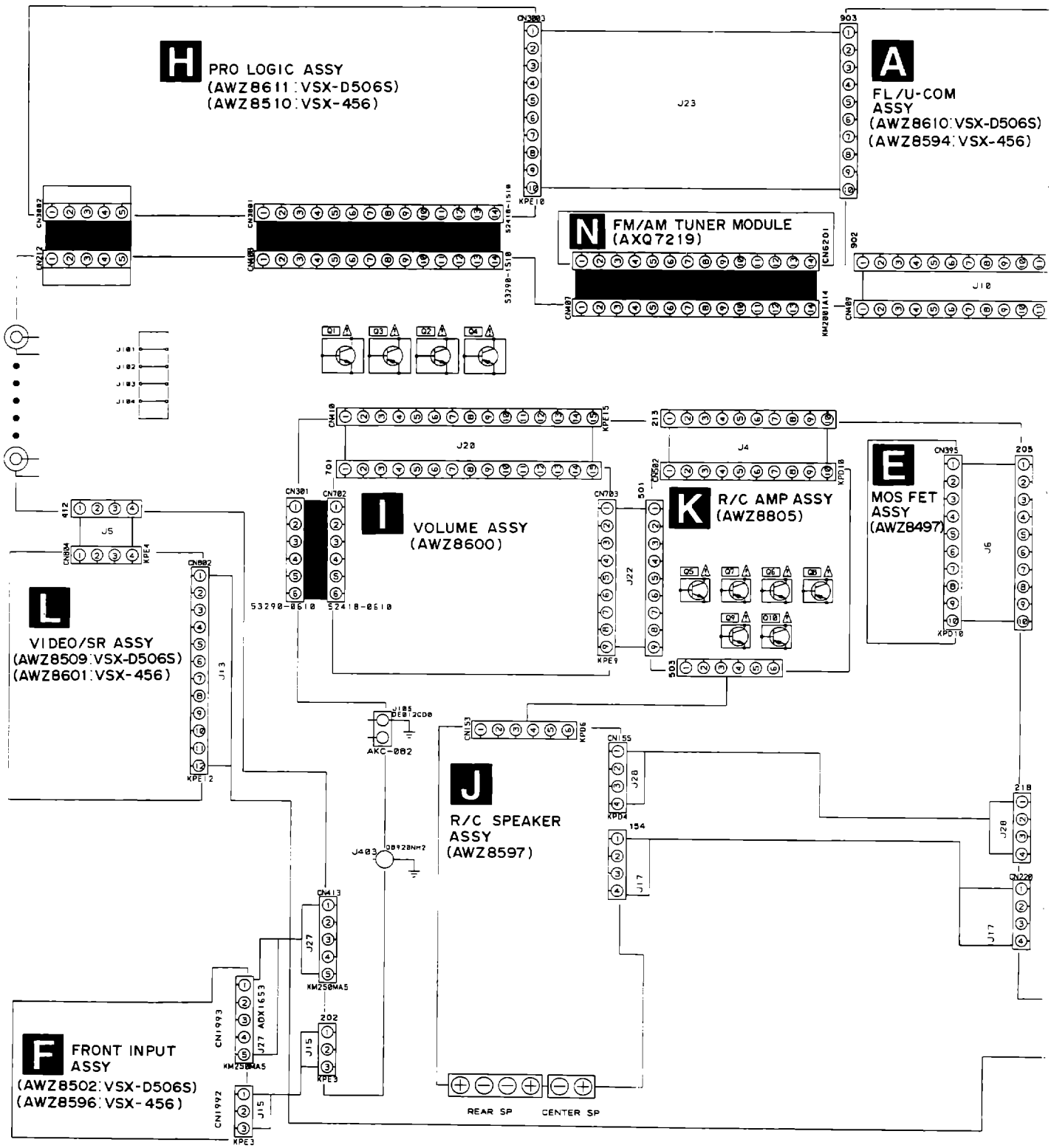
VSX-D506S/KCXJI, VSX-456/KUXJI, KCXJI and VSX-D506S/KUXJI have the same construction except for the following :

Mark	No.	Srmbol & Description	Part No.				Remarks
			VSX-D506S		VSX-456		
			KUXJI	KCXJI	KUXJI	KCXJI	
NSP	1	POWER SWITCH ASSY	AWZ8501	AWZ8501	AWZ8595	AWZ8595	
NSP	2	FRONT INPUT ASSY	AWZ8502	AWZ8502	AWZ8596	AWZ8596	
	3	FL/U-COM ASSY	AWZ8610	AWZ8610	AWZ8594	AWZ8594	
NSP	4	Housing 5P Shield	ADX1653	ADX1653	Not used	Not used	
	7	Input Button	AAD7327	AAD7327	Not used	Not used	
	12	Sub Panel	AAP7024	AAP7024	AAP7023	AAP7023	
	13	Front Panel	AMB7390	AMB7390	AMB7389	AMB7389	
	14	Screw	ABA7009	ABA7009	Not used	Not used	

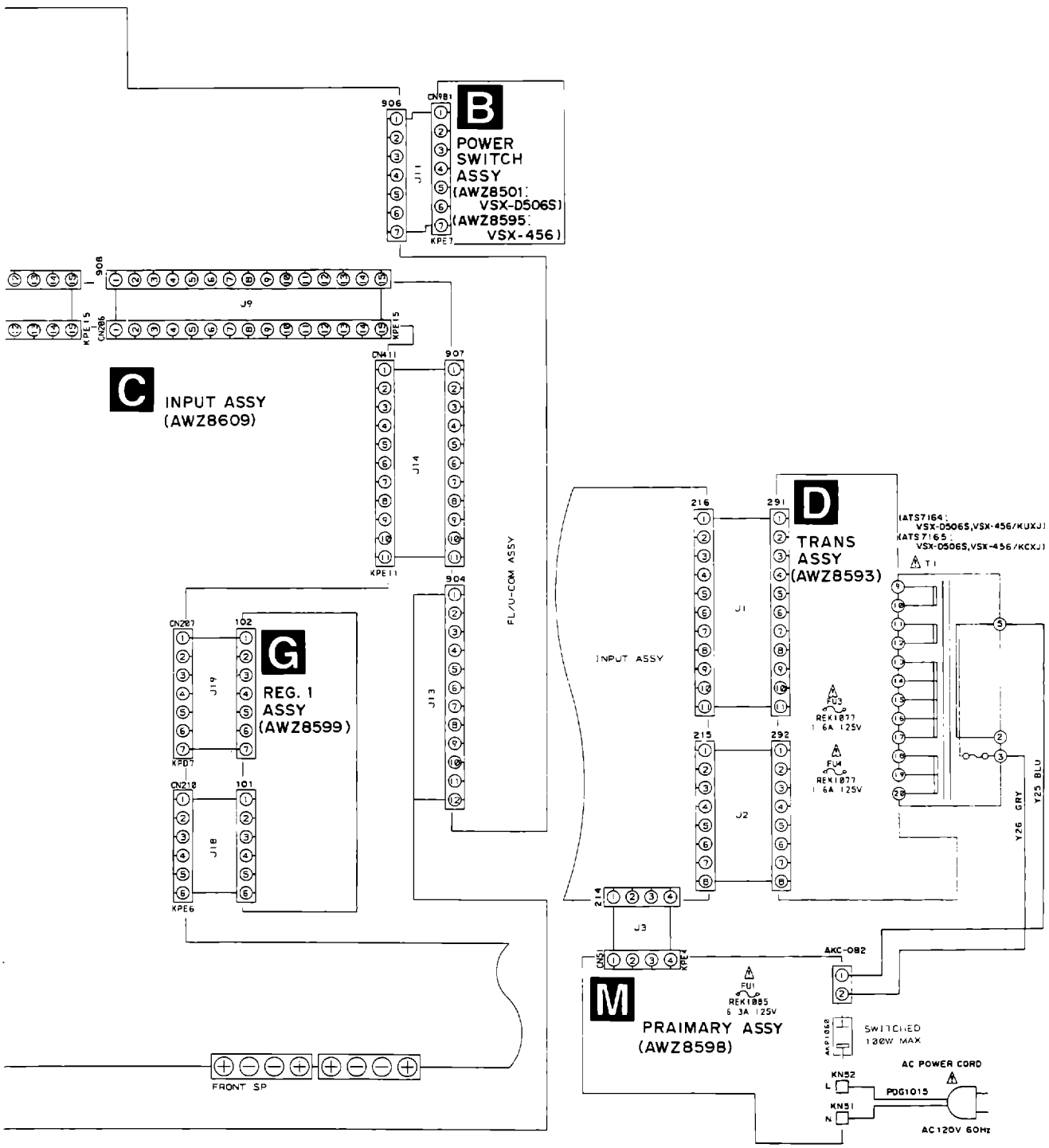
VSX-D506S, VSX-456

3. SCHEMATIC DIAGRAM

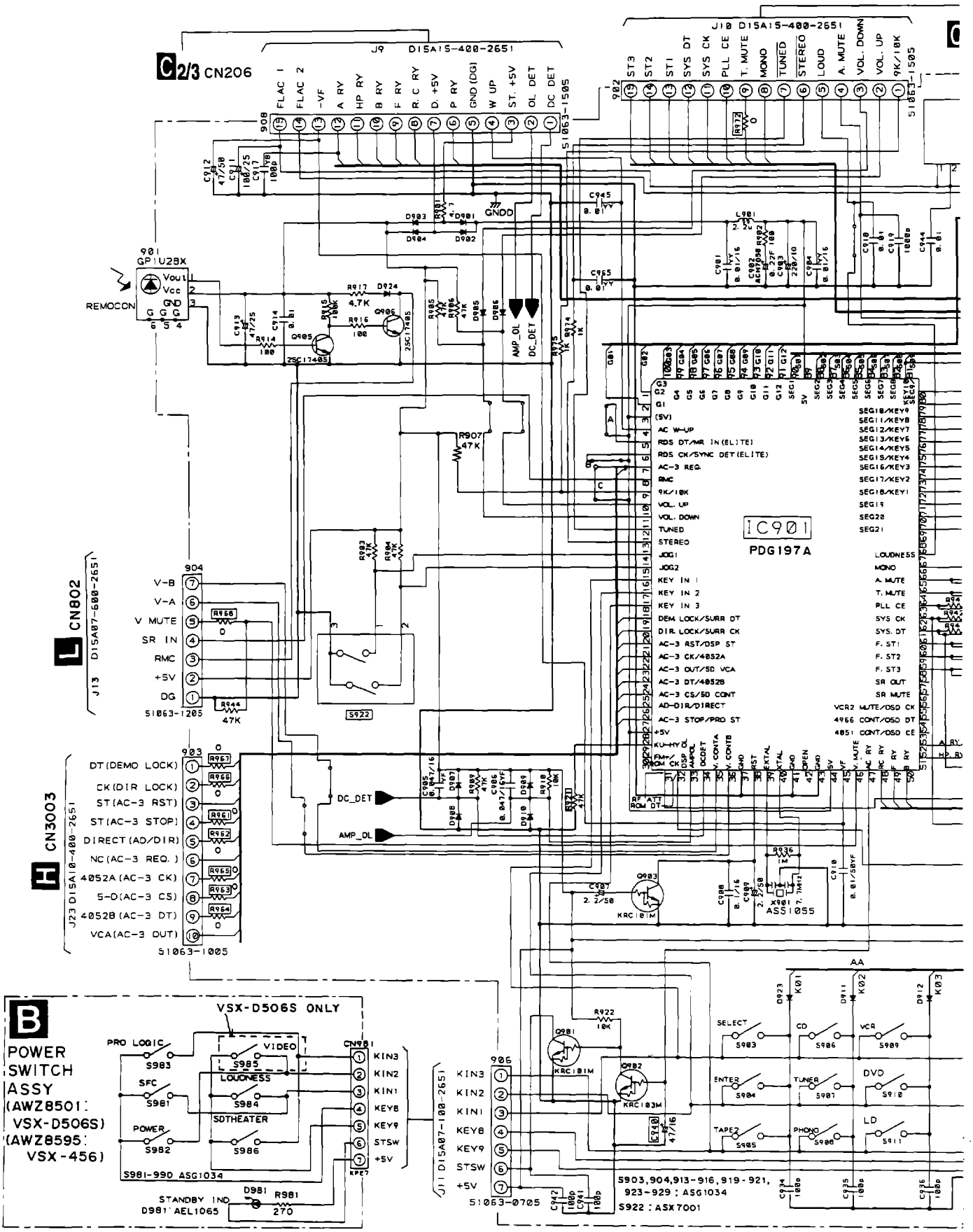
3.1 OVERALL CONNECTION DIAGRAM



NOTE: When ordering service parts, be sure to refer to "PARTS LIST of EXPLODED VIEWS" or "PCB PARTS LIST".



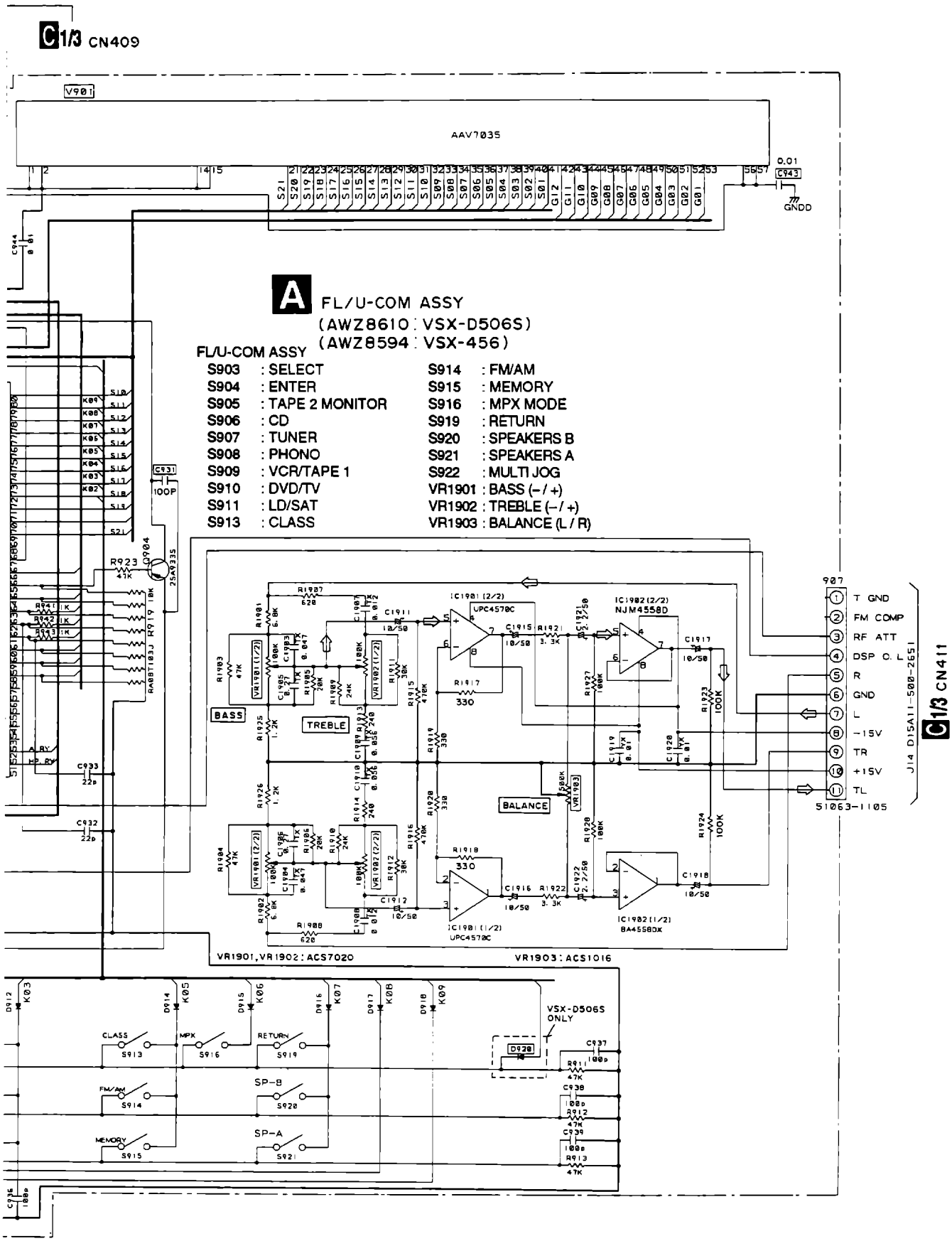
3.2 FL/U-COM ASSY AND POWER SWITCH ASSY



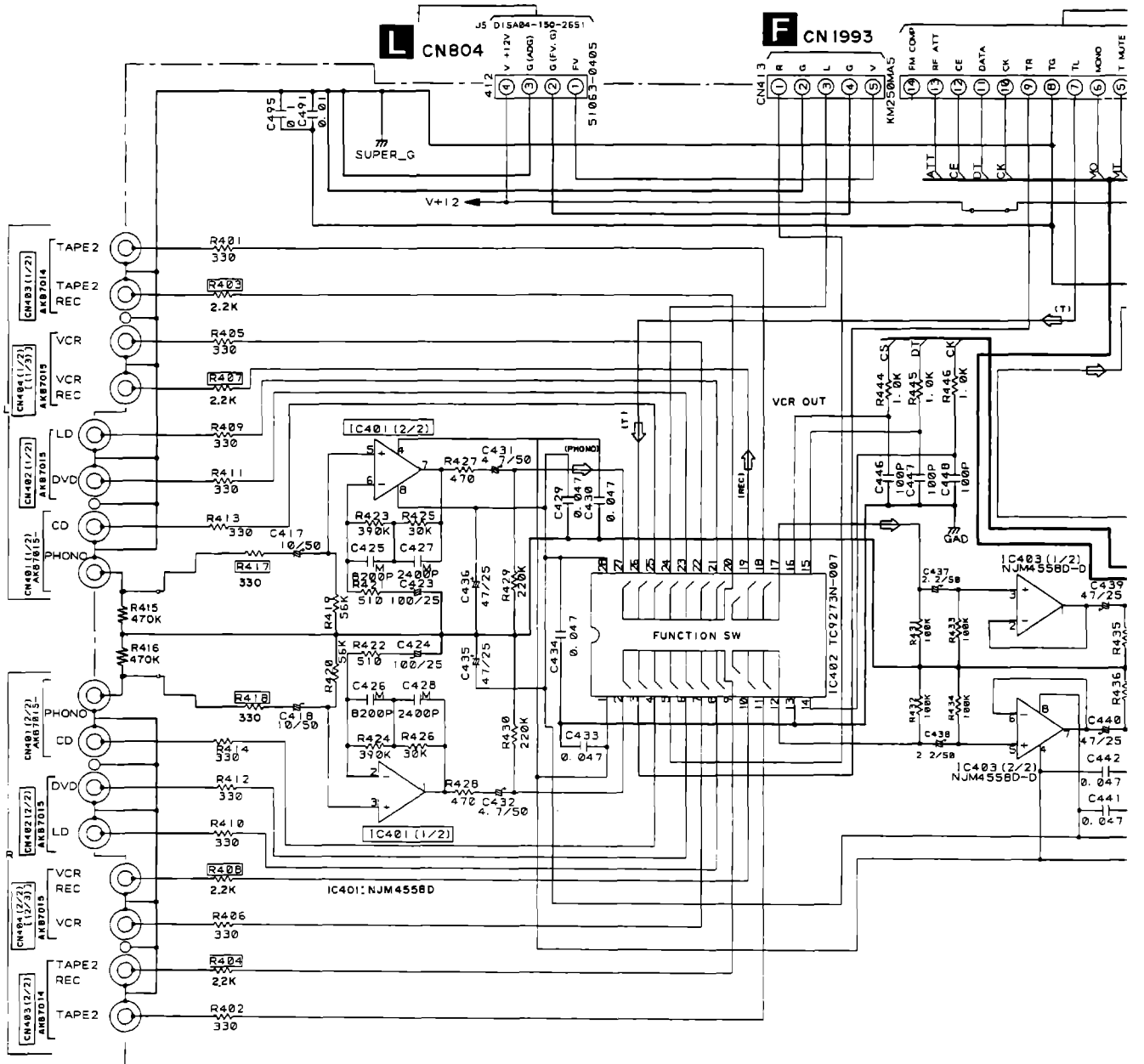
POWER SW ASSY

S981	: SFC MODE	S984	: LOUDNESS
S982	: POWER STANDBY/ON	S985	: VIDEO INPUT
S983	: DOLBY PRO LOGIC	S986	: 5-D THEATER

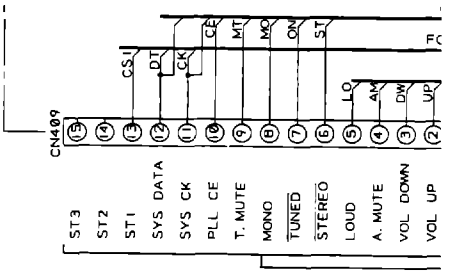
⇨: AUDIO SIGNAL ROUTE



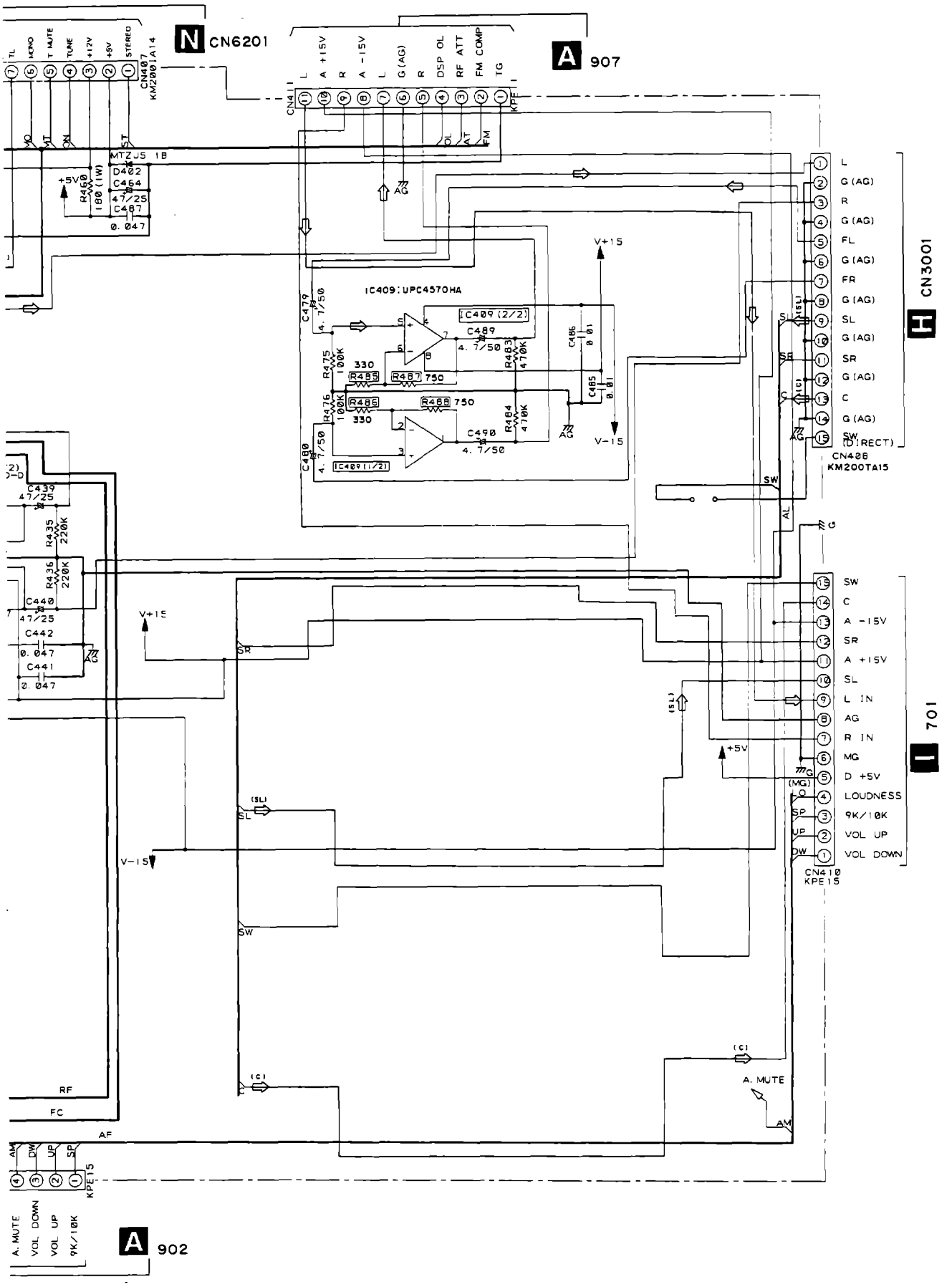
3.3 INPUT ASSY (1/3)



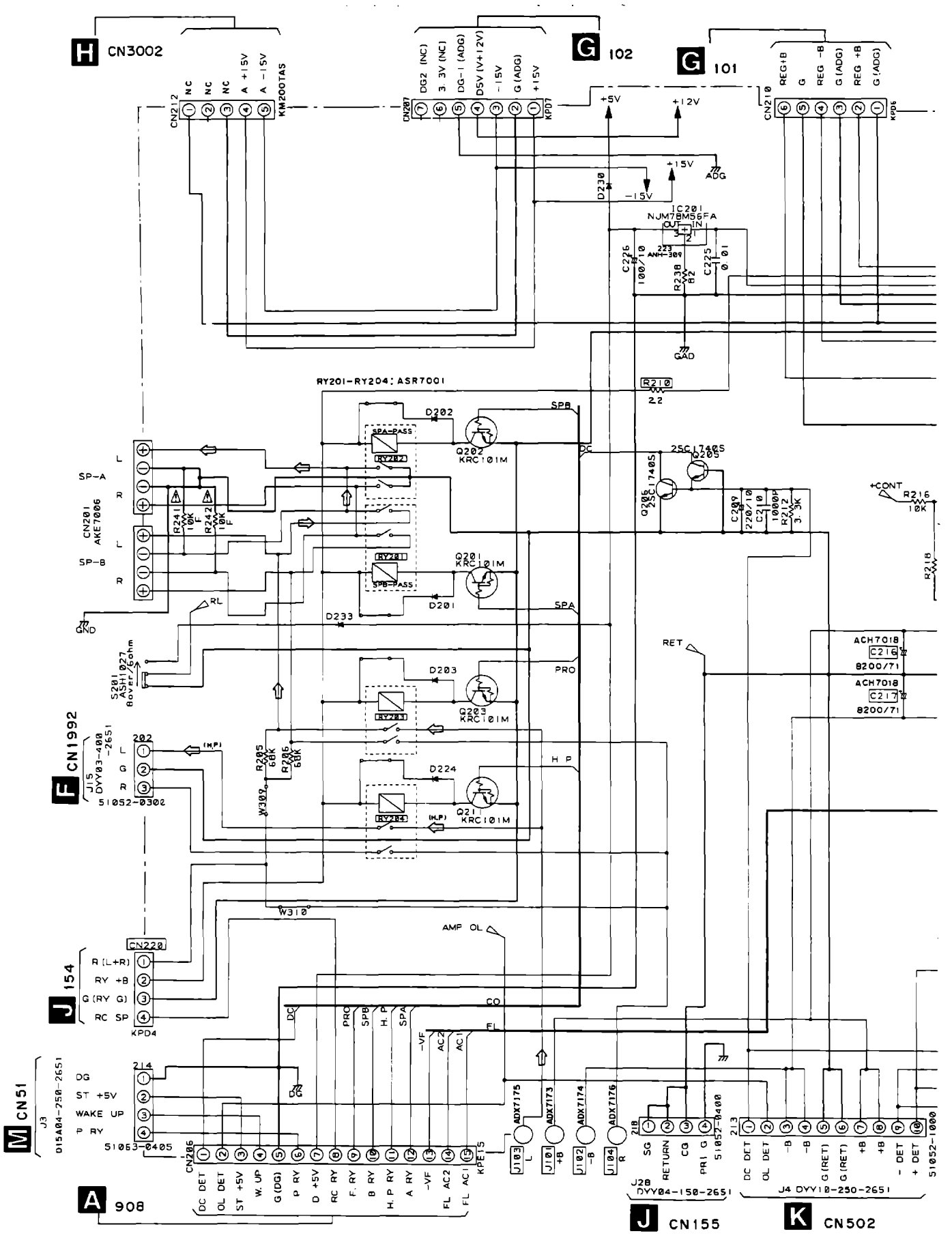
C 1/3 INPUT ASSY (AWZ8609)



⇨: AUDIO SIGNAL ROUTE
(SL)⇨: AUDIO SIGNAL ROUTE (REAR)
(C)⇨: AUDIO SIGNAL ROUTE (CENTER)
(T)⇨: AUDIO SIGNAL ROUTE (TUNER)
(P)⇨: AUDIO SIGNAL ROUTE (PHONO)
(REC)⇨: AUDIO SIGNAL ROUTE (REC)


N CN6201
A 907
CN411
CN407
KM200IA14
IC409: UPC4570HA
IC409 (2/2)
IC409 (1/2)
H CN3001
CN408
KM200TA15
I 701
CN410
KPE15
A 902
A. MUTE
VOL DOWN
VOL UP
9K/10K
V+15
V-15
+5V
AG
SW
SR
SL
RF
FC
AF
AM

3.4 INPUT ASSY (2/3), TRANS ASSY AND MOS FET ASSY

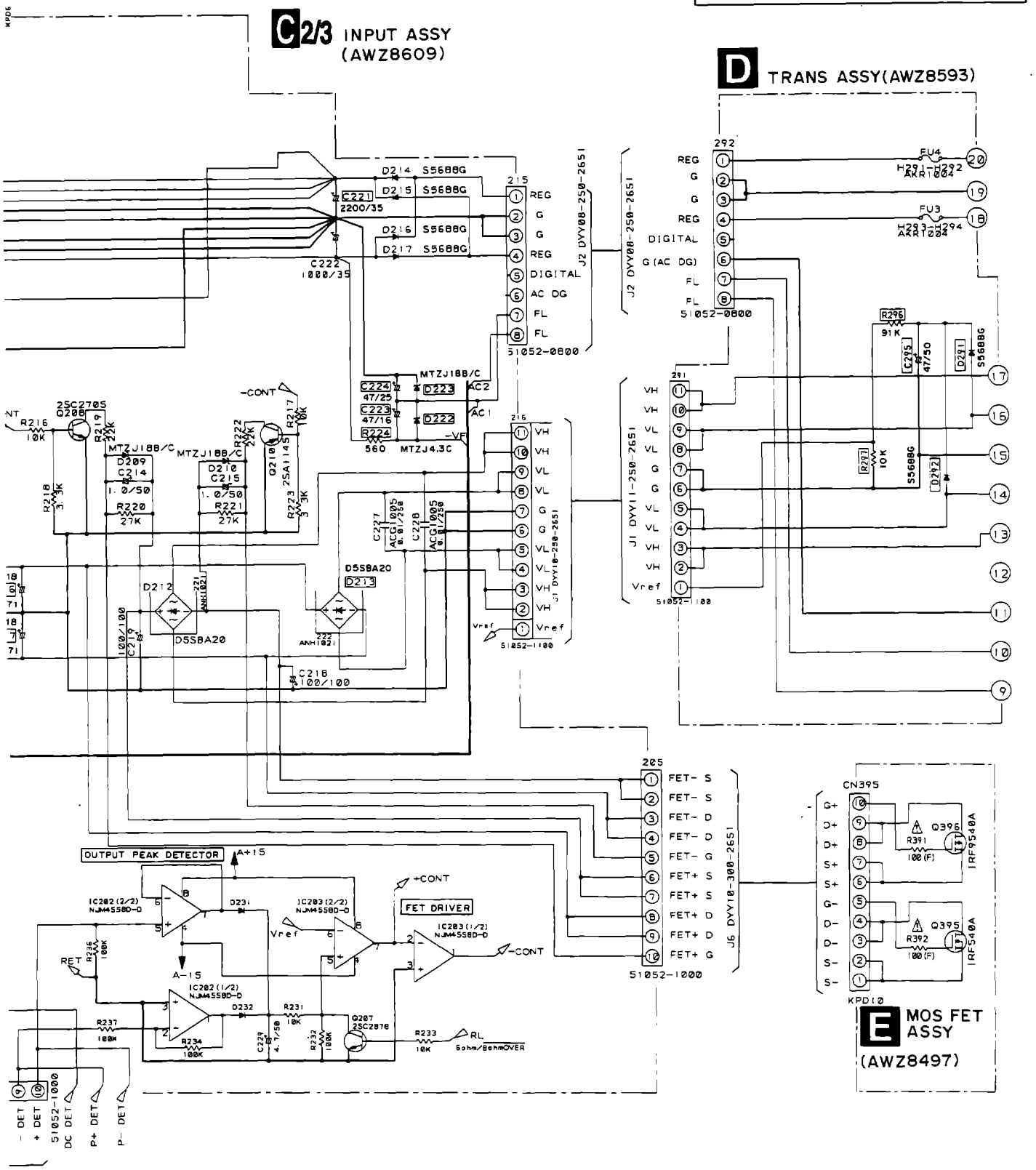


INPUT ASSY
S201 : IMPEDANCE SELECTOR

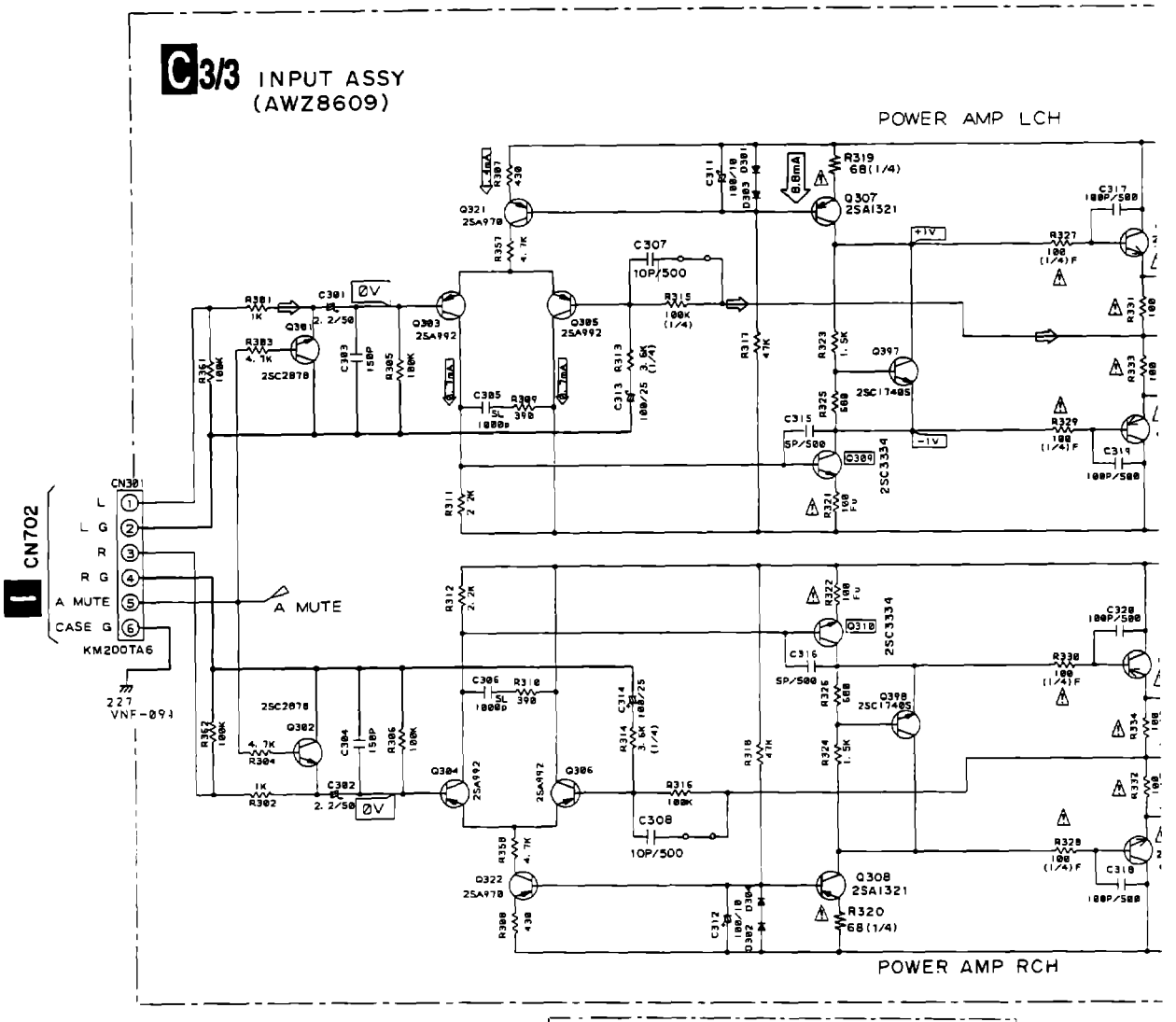
⇨: AUDIO SIGNAL ROUTE
(H.P)⇨: AUDIO SIGNAL ROUTE (HEADPHONE)

● NOTE FOR FUSE REPLACEMENT

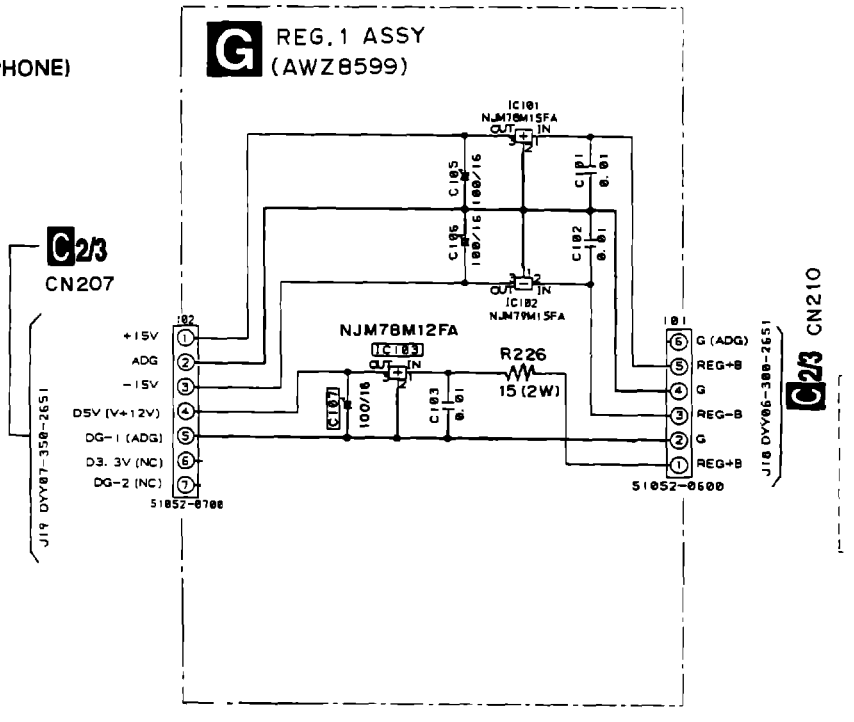
CAUTION – FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE AND RATINGS ONLY.

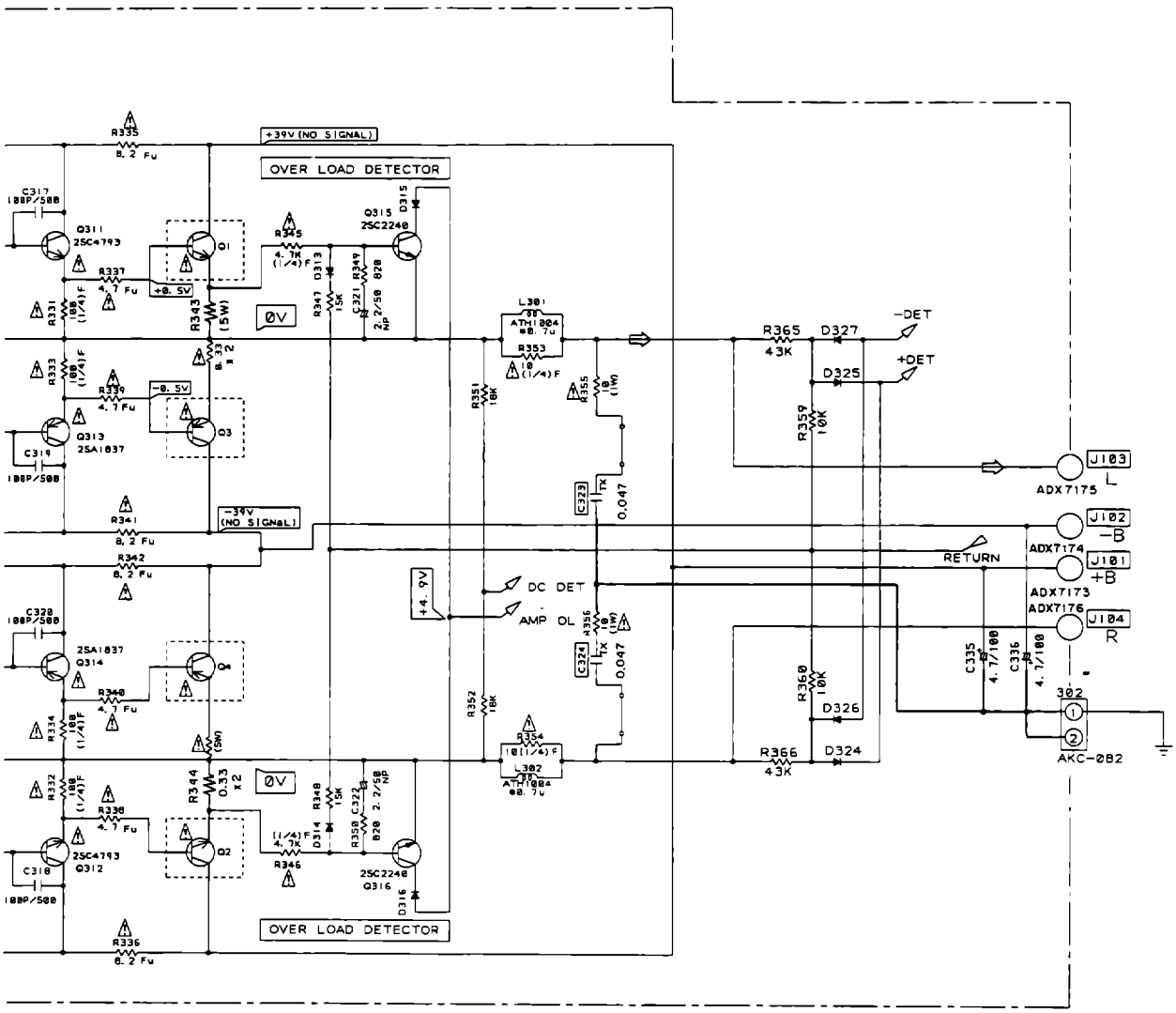


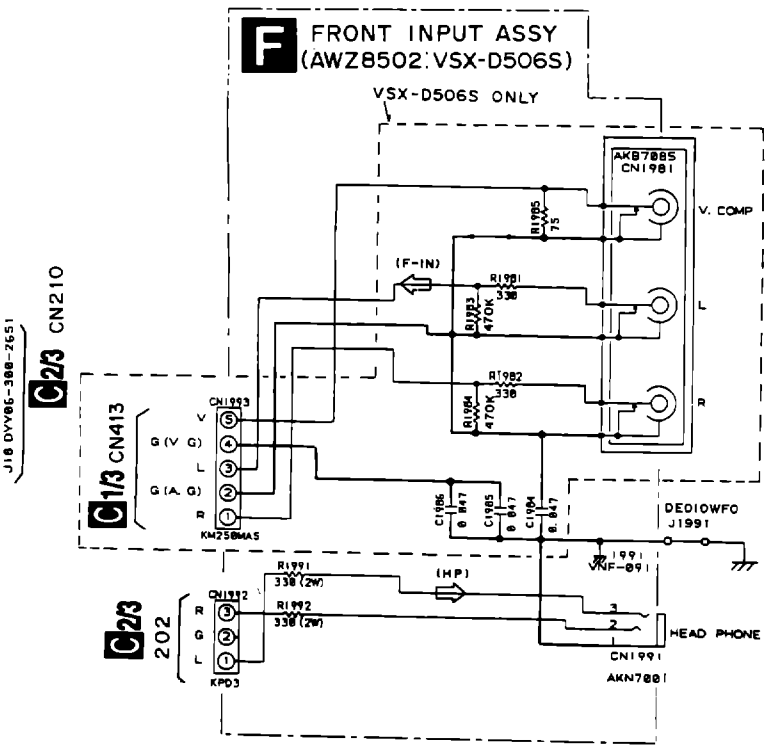
3.5 INPUT ASSY (3/3), FRONT INPUT ASSY AND REG.1 ASSY



⇨: AUDIO SIGNAL ROUTE
(H.P)⇨: AUDIO SIGNAL ROUTE (HEADPHONE)
(F.IN)⇨: AUDIO SIGNAL ROUTE (F.IN)







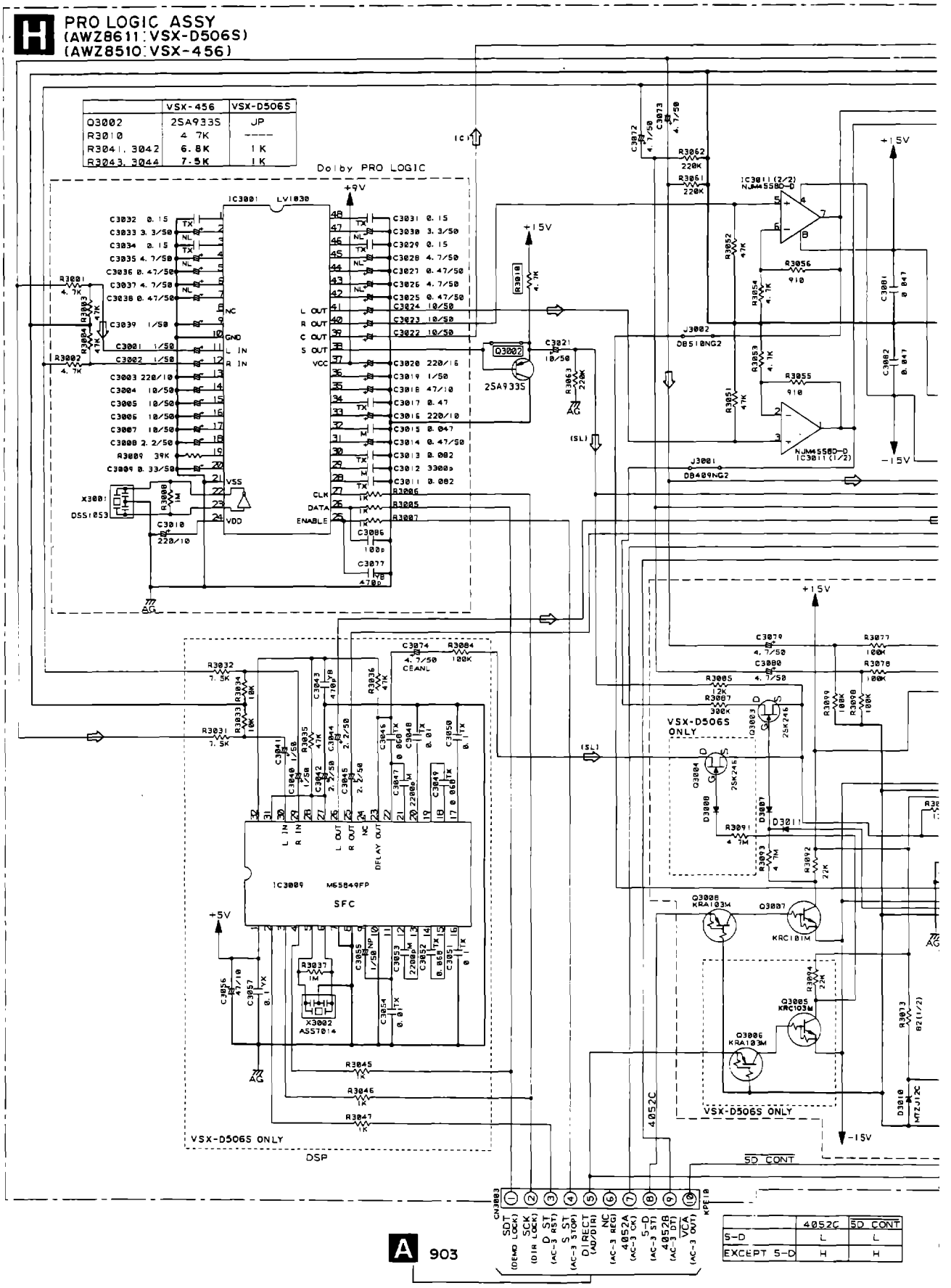
Noted

1. Resistors
   Indicated in ohm 1/4W
   tolerance ±5%
   unless otherwise noted
   K:Kohm , M:Mohm
   F Non flammable type
   Fu: Non flammable quick open type
   FL Non flammable type (RD1/4LMF***J type)

2. Capacitors
   Indicated in capacity(uF)/voltage(V)
   unless otherwise noted
   p=pF
   Indication without voltae is 50V except
   electrolytic capacitor
   NL=CEANL⁻ TX=CFTXA⁻

3. Diodes
   Other diodes(not noted) are 1SS252

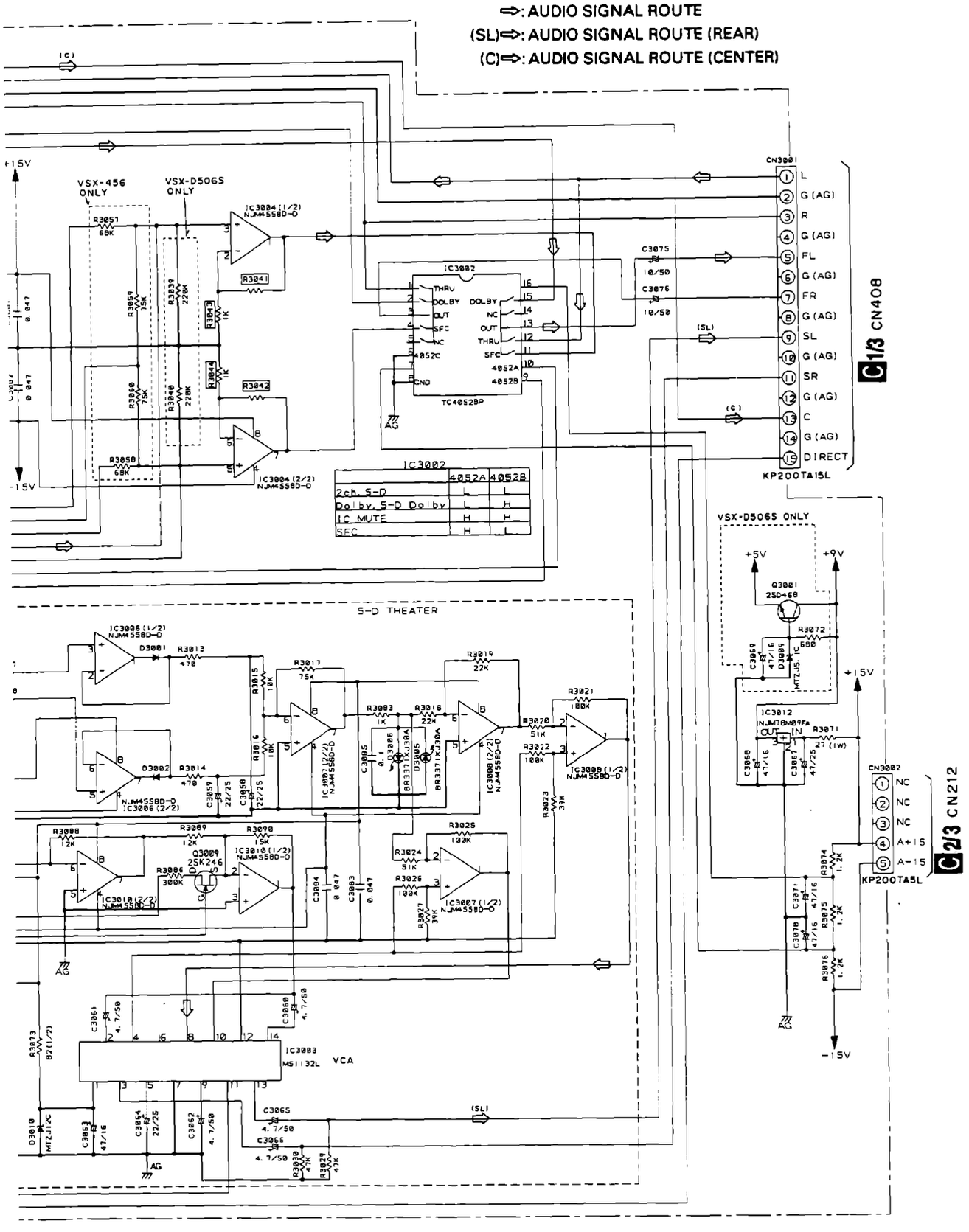
3.6 PRO LOGIC ASSY



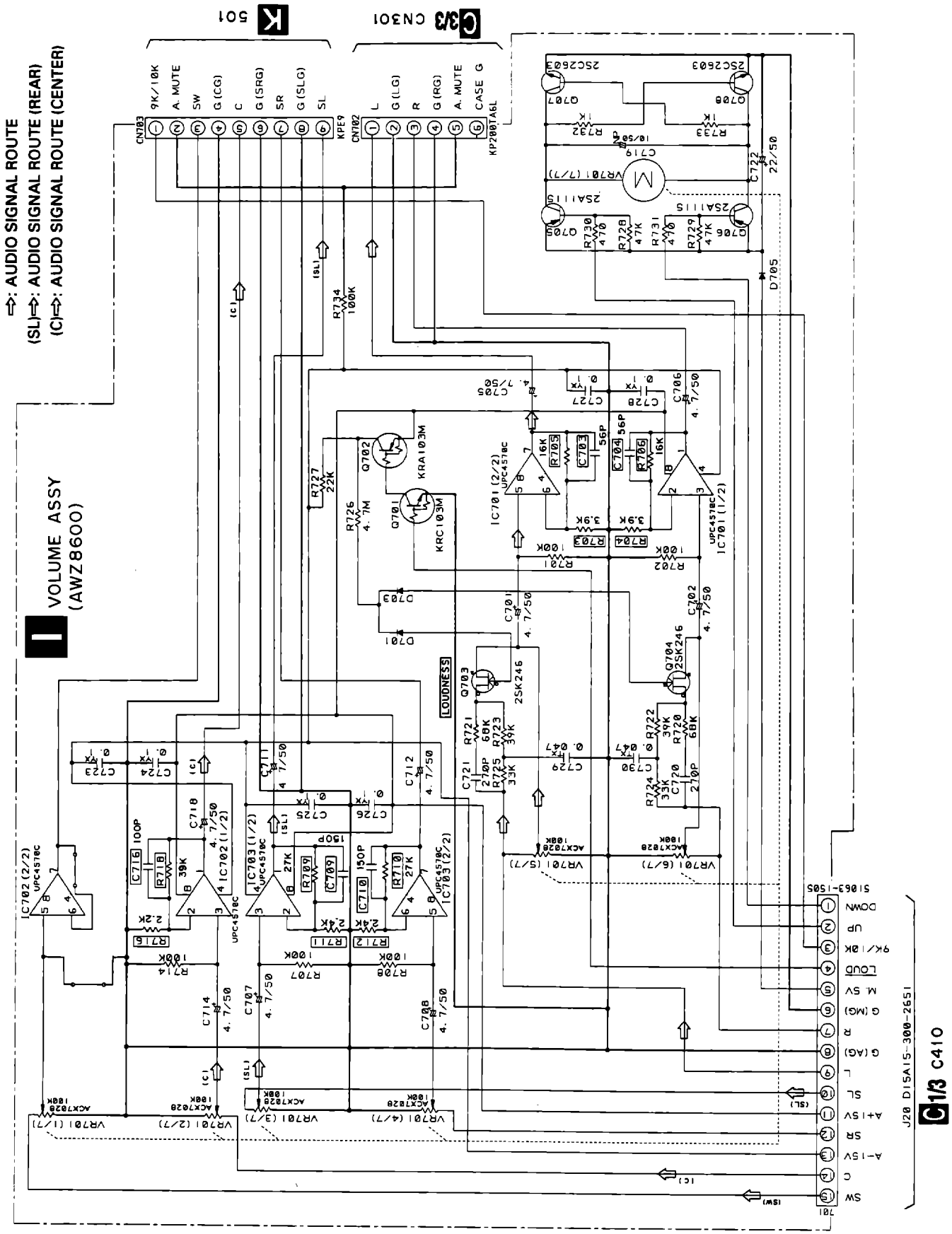
	VSX-456	VSX-D506S
Q3002	2SA933S	JP
R3010	4.7K	----
R3041, 3042	6.8K	1K
R3043, 3044	7.5K	1K

	4052C	SD CONT
S-D	L	L
EXCEPT S-D	H	H

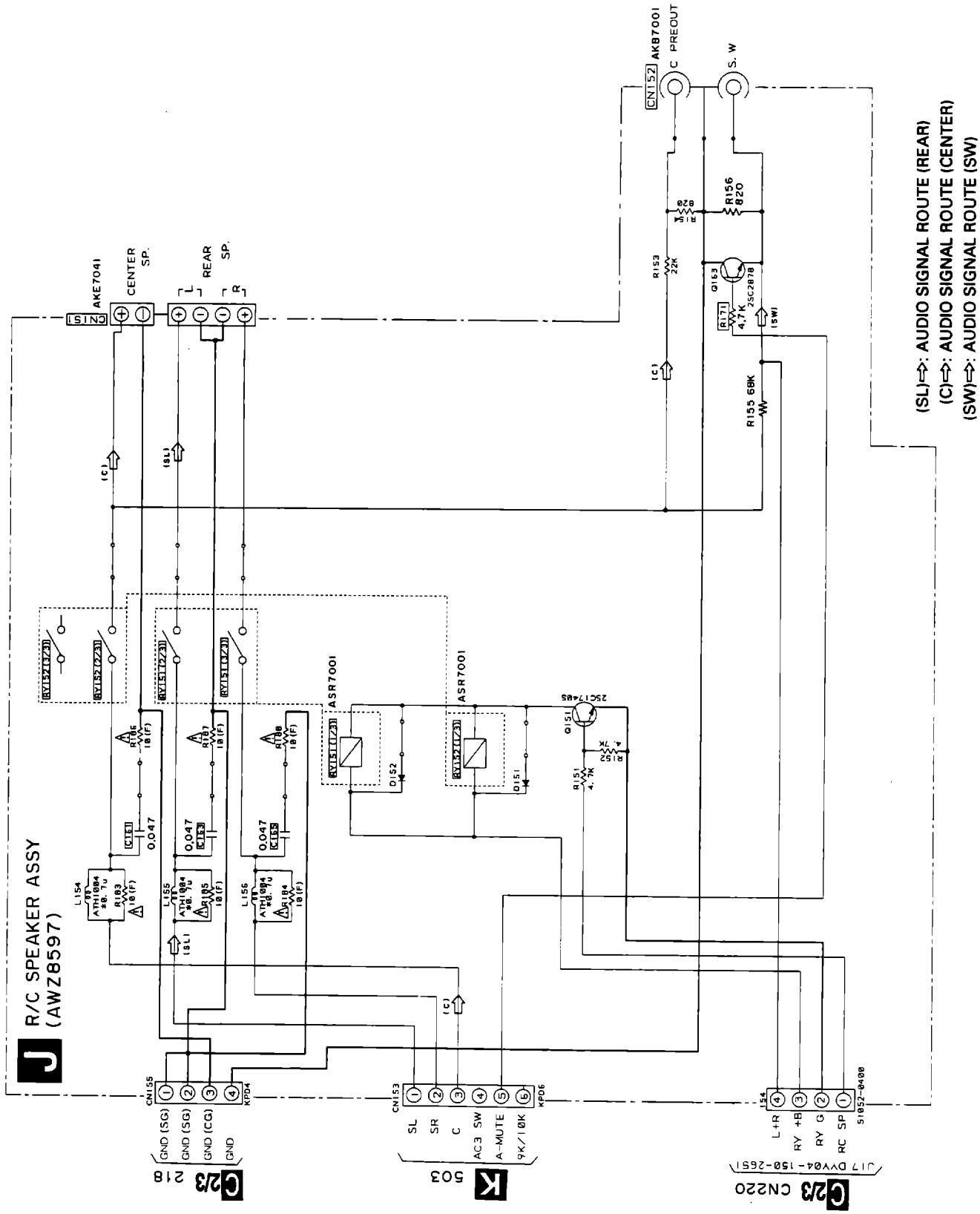
⇨: AUDIO SIGNAL ROUTE
(SL)⇨: AUDIO SIGNAL ROUTE (REAR)
(C)⇨: AUDIO SIGNAL ROUTE (CENTER)



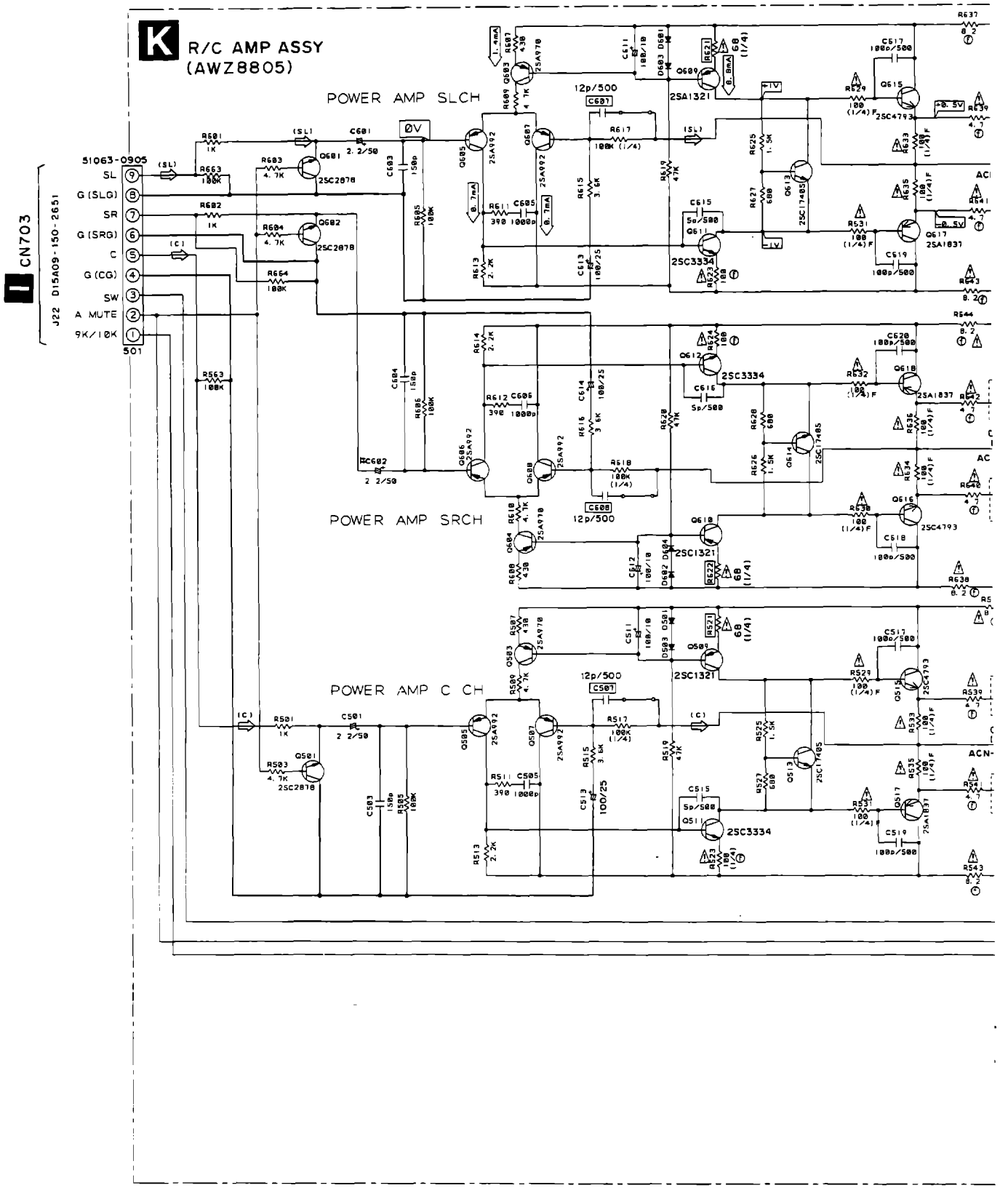
3.7 VOLUME ASSY



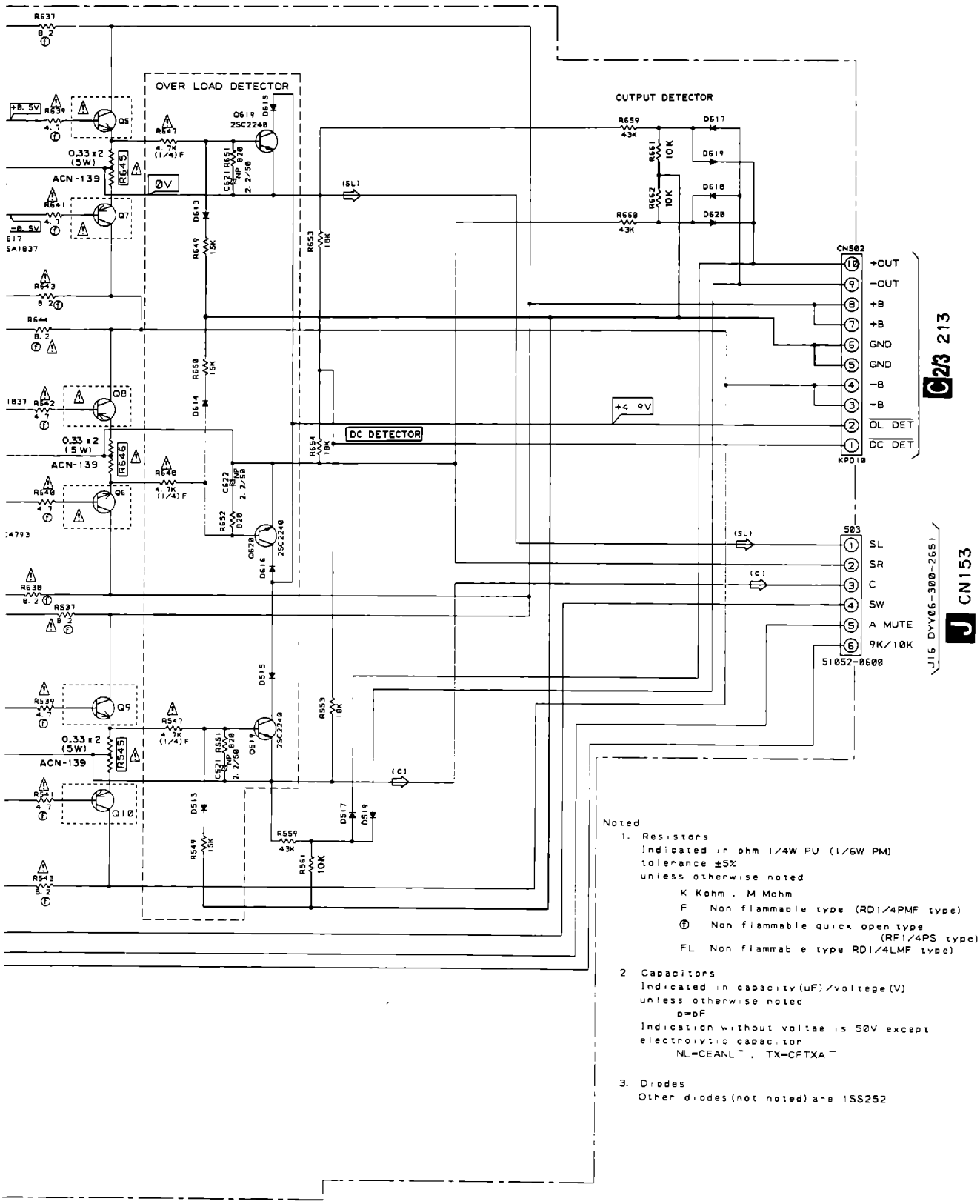
3.8 R/C SPEAKER ASSY



3.9 R/C AMP ASSY



⇨: AUDIO SIGNAL ROUTE
(SL)⇨: AUDIO SIGNAL ROUTE (REAR)
(C)⇨: AUDIO SIGNAL ROUTE (CENTER)



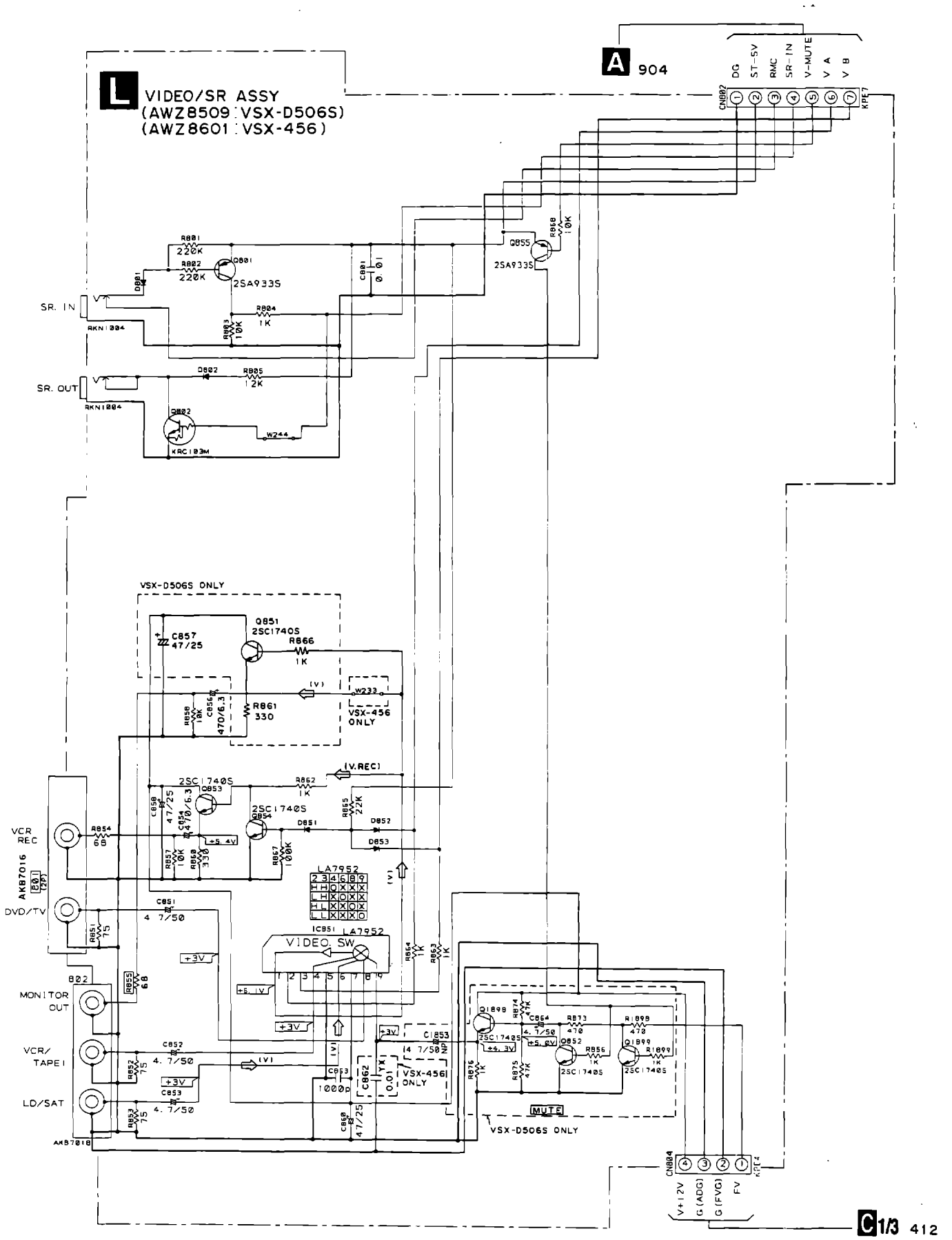
Noted

1. Resistors
   Indicated in ohm 1/4W PU (1/6W PM)
   tolerance ±5%
   unless otherwise noted
   K Kohm , M Mohm
   F Non flammable type (RD1/4PMF type)
   Ⓕ Non flammable quick open type (RF1/4PS type)
   FL Non flammable type RD1/4LMF type)

2. Capacitors
   Indicated in capacity(uF)/voltage(V)
   unless otherwise noted
   p=pF
   Indication without voltage is 50V except electrolytic capacitor
   NL=CEANL⁻, TX=CFTXA⁻

3. Diodes
   Other diodes(not noted) are 1SS252

3.10 VIDEO SR ASSY AND PRIMARY ASSY



(V)⇨: VIDEO SIGNAL ROUTE
(V.REC)⇨: VIDEO REC SIGNAL ROUTE

Mark	No.	Description	Parts No.
RESISTORS			
	R6101	CHIP RESISTOR	RS1/8S470J
	R6113,R6116	CHIP RESISTOR	RS1/8S0R0J
	R6118	CHIP RESISTOR	RS1/8S0R0J
	R6209	CHIP RESISTOR	RS1/8S221J
	R6211	CHIP RESISTOR	RS1/8S103J
	R6237	CHIP RESISTOR	RS1/8S182J
	R6239	CHIP RESISTER	RS1/8S332J
	R6243,R6244	CHIP RESISTOR	RS1/8S101J
	R6268-R6271	CHIP RESISTOR	RS1/8S0R0J
	R6275,R6276	CHIP RESISTOR	RS1/8S0R0J
	R6278,R6283	CHIP RESISTOR	RS1/8S0R0J
	R6284,R6290	CHIP RESISTOR	RS1/8S0R0J
	R6293,R6294	CHIP RESISTOR	RS1/8S0R0J
	R6297	CHIP RESISTOR	RS1/8S0R0J
	R6299,R6300	CARBON FILM RESISTOR	RD1/4PU102J
	VR6201	VR (10KΩ)	ACP1056
	VR6202	VR	VRTB6VS223
	Other Resistors	CHIP RESISTOR	RS1/10S0R0J
OTHERS			
		AM RF TUNING BLOCK	AXX1025
	BN6201	TERMINAL 4-P	AKE7028
	CN6201	14P SOCKET	KP200IA14L
	X6201	CRYSTAL RESONATOR (456KHz)	ASS1066
	X6202	CERAMIC RESONATOR (450KHz)	ATF1027
	X6203	CRYSTAL RESONATOR (7.200MHz)	ASS1042

6. ADJUSTMENT

6.1 TUNER SECTION

■ FM Tuner Section

- Set the mode selector to FM BAND.
- Connect the wiring as shown in Fig. 1–1.

Step No.	Adjustment Title	FM SG (1kHz, ±75kHz dev.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (MHz)	Level (dBμV)			
1	Center Adjustment	98 Non modulation	80 or more	———	L6207	Adjust so that the DC voltage between the IC6201-Pin 4 and Pin 28 (or ⊕ leads of C6224 and C6261) becomes 0V±50mv.
2	Front End Sensitivity Adjustment	98	10 to 30	98MHz	L6102 T6101	Adjust so that the DC voltage between the IC6201-Pin 12 and GND (or ⊕ leads of C6238 and GND) becomes at maximum level.
3	Stereo Distortion	98	80	98MHz	T6101	Minimize the distortion with 1/8 rotation of the core.
4	TUNED IND. Lighting Level	98	15±2	98MHz	VR6201	Adjust so that the indicator of TUNED IND. starts to light up.

Notes:

- *Before adjusting, make sure there is no gap between L6101 and L6102. If there is a gap between them, bring them into contact with each other first, and then make adjustments.*
- *Make indicator adjustments in order of AM → FM.*

■ AM Tuner Section

- Set the mode selector to AM BAND.
- Connect the wiring as shown in Fig. 1–1.

Step No.	Adjustment Title	AM SG (400Hz, 30% Mod.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (kHz)	Level (dBμV/m)			
1	TUNED IND. Lighting Level	999*1	47 (±2dB)	999kHz*1	VR6202	Adjust so that the indicator of TUNED IND. stars to light up.

**1: For the area using 10kHz step, frequencies should be 1000 kHz*

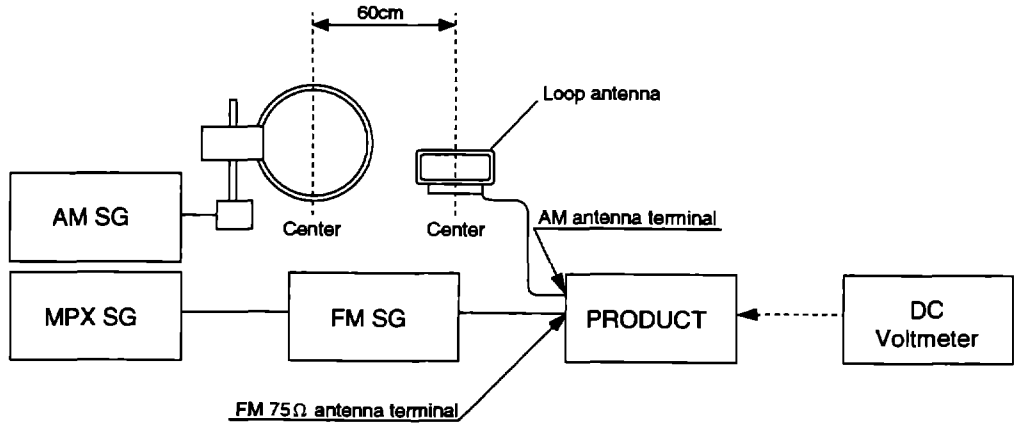


Fig. 1–1 AM and FM Adjustment Wiring Diagram

FM/AM TUNER MODULE

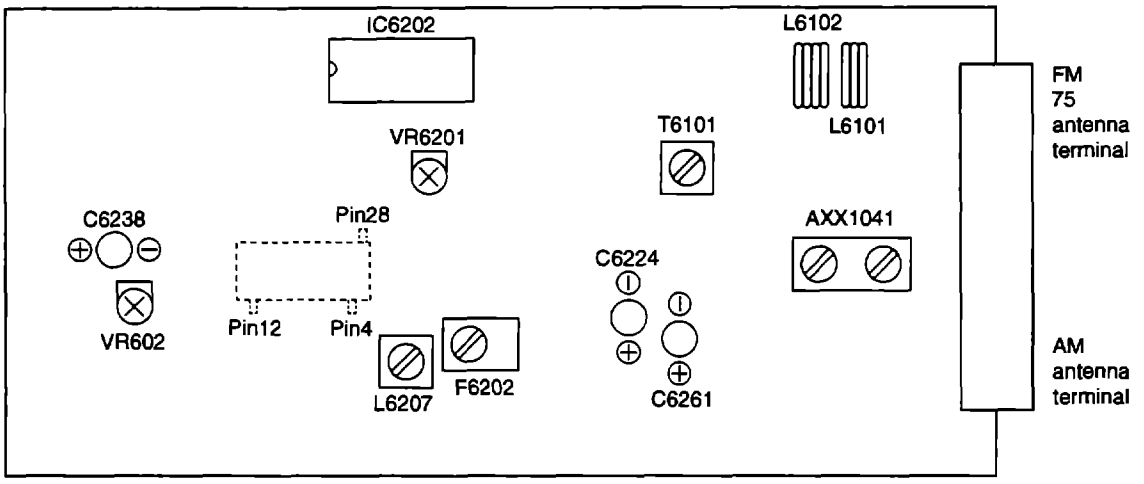


Fig. 1-2 Adjustment Points

7. GENERAL INFORMATION

7.1 PARTS

7.1.1 IC

• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

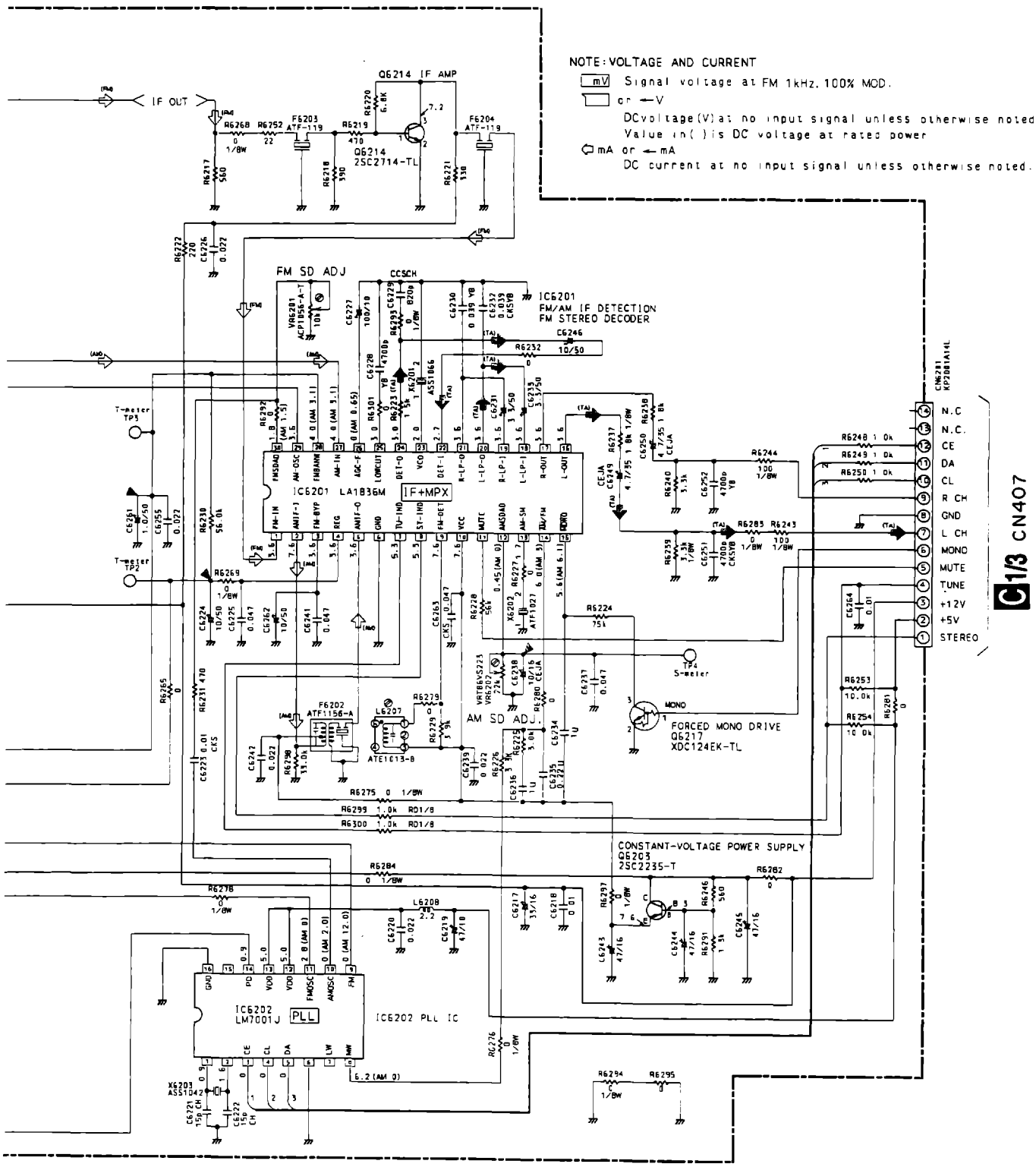
■ PDG197A (FL/U-COM ASSY : IC901)

● Microcomputer Port Function Table

PIN No.	PIN NAME	FUNCTION	RESET		FUNCTION		
1	G1/A1	O/O	Hi-Z or PD	O	FL Grid 2		
2	G0/A0	O/O	Hi-Z or PD	O	FL Grid 1		
3	NC	(5V)			(5V)		
4	PE0/EC0/INT0	I/I/I	Hi-Z	I	AC WAKE-UP		
5	PE1/EC1/INT1	I/I/I	Hi-Z	I	no use		
6	PE2/INT2	I/I	Hi-Z	I	no use		
7	PE3/INT3/NMI	I/I/I	Hi-Z	I	no use		
8	PE4/RMC	I/I	Hi-Z	I	RMC		
9	PE5	I/I	Hi-Z	I	9K/10K		
10	PE6/PWM	O/O	H	O	VOL.UP		
11	PE7/T0/ADJ	O/O/O	H	O	VOL.DOWN		
12	PC0/KR0	IO/I	Hi-Z	I	TUNED		
13	PC1/KR1	IO/I	Hi-Z	I	STEREO		
14	PC2/KR2	IO/I	Hi-Z	I	JOG 1		
15	PC3/KR3	IO/I	Hi-Z	I	JOG 2		
16	PC4/KR4	IO/I	Hi-Z	I	KEY IN 1		
17	PC5/KR5	IO/I	Hi-Z	I	KEY IN 2		
18	PC6/KR6	IO/I	Hi-Z	I	KEY IN 3		
19	PC7/KR7	IO/I	Hi-Z	O	PRO-LOGIC DT		
20	PB0/CINT	IO/I	Hi-Z	O	PRO-LOGIC CK		
21	PB1/CS0	IO/I	Hi-Z	O	DSP ST		
22	PB2/SCK0	IO/IO	Hi-Z	O	4052 CONT A		
23	PB3/SI0	IO/I	Hi-Z	O	5-D THEATER ON/OFF		
24	PB4/SO0	IO/I	Hi-Z	O	4052 CONT B		
25	PB5/SCK1	IO/IO	Hi-Z	O	5-D CONTROL		
26	PB6/SI1	IO/I	Hi-Z	O	DSP-DELAY/DIRECT		
27	PB7/SO1	IO/O	Hi-Z	O	PRO-LOGIC ST		
28	AVREF	I	(5V)	I	5V		
29	PA0/AN0	IO/AI	Hi-Z	I	KU-HY Selection		
30	PA1/AN1	IO/AI	Hi-Z	O	BAND		
31	PA2/AN2	IO/AI	Hi-Z	O	no use		
32	PA3/AN3	IO/AI	Hi-Z	O	no use		
33	PA4/AN4	IO/AI	Hi-Z	I	AMP OL		
34	PA5/AN5	IO/AI	Hi-Z	I	AMP DC		
35	PA6/AN6	IO/AI	Hi-Z	O	V.CONT B		
36	PA7/AN7	IO/AI	Hi-Z	O	V.CONT A		
37	AVss	(GND)	GND		GND		
38	RST	I	LOW	I	RST		
39	EXTAL	I	Oscillation	I	Oscillation		
40	XTAL	O	Oscillation	O	Oscillation		
41	Vss	(GND)	GND		GND		
42	TX	O		O	OPEN		
43	TEX	I		I	GND		
44	VDD	(5V)	5V		5V		
45	VFDP	(VF)	VF		VF		
46	PD0/A55	O/O	Hi-Z or PD	O	V.MUTE		
47	PD1/A54	O/O	Hi-Z or PD	O	AC RY		
48	PD2/A53	O/O	Hi-Z or PD	O	R.C. RY		
49	PD3/A52	O/O	Hi-Z or PD	O	FRONT RY		
50	PD4/A51	O/O	Hi-Z or PD	O	SP-B RY		

PIN No.	PIN NAME	FUNCTION	RESET		FUNCTION		
51	PD5/A50	O/O	Hi-Z or PD	O	HP RY		
52	PD6/A49	O/O	Hi-Z or PD	O	SP-A RY		
53	PD7/A48	O/O	Hi-Z or PD	O	no use		
54	PF0/A47	O/O	Hi-Z or PD	O	no use		
55	PF1/A46	O/O	Hi-Z or PD	O	no use		
56	PF2/A45	O/O	Hi-Z or PD	O	(OPEN)		
57	PF3/A44	O/O	Hi-Z or PD	O	(OPEN)		
58	PF4/A43	O/O	Hi-Z or PD	O	F. ST 3		
59	PF5/A42	O/O	Hi-Z or PD	O	F. ST 2		
60	PF6/A41	O/O	Hi-Z or PD	O	F. ST 1		
61	PF7/A40	O/O	Hi-Z or PD	O	SYS. DT		
62	PG0/A39	O/O	Hi-Z or PD	O	SYS. CK		
63	PG1/A38	O/O	Hi-Z or PD	O	PLL CE		
64	PG2/A37	O/O	Hi-Z or PD	O	T. MUTE		
65	PG3/A36	O/O	Hi-Z or PD	O	A. MUTE		
66	PG4/A35	O/O	Hi-Z or PD	O	MONO		
67	PG5/A34	O/O	Hi-Z or PD	O	LOUDNESS		
68	PG6/A33	O/O	Hi-Z or PD	O	(OPEN)		
69	PG7/A32	O/O	Hi-Z or PD	O	SEG.21		
70	PH0/A31	O/O	Hi-Z or PD	O	SEG.20		
71	PH1/A30	O/O	Hi-Z or PD	O	SEG.19		
72	PH2/A29	O/O	Hi-Z or PD	O	SEG.18/KEY 1		
73	PH3/A28	O/O	Hi-Z or PD	O	SEG.17/KEY 2		
74	PH4/A27	O/O	Hi-Z or PD	O	SEG.16/KEY 3		
75	PH5/A26	O/O	Hi-Z or PD	O	SEG.15/KEY 4		
76	PH6/A25	O/O	Hi-Z or PD	O	SEG.14/KEY 5		
77	PH7/A24	O/O	Hi-Z or PD	O	SEG.13/KEY 6		
78	A23	O	Hi-Z or PD	O	SEG.12/KEY 7		
79	A22	O	Hi-Z or PD	O	SEG.11/KEY 8		
80	A21	O	Hi-Z or PD	O	SEG.10/KEY 9		
81	A20	O	Hi-Z or PD	O	SEG. 9/KEY10		
82	A19	O	Hi-Z or PD	O	SEG. 8		
83	A18	O	Hi-Z or PD	O	SEG. 7		
84	A17	O	Hi-Z or PD	O	SEG. 6		
85	A16	O	Hi-Z or PD	O	SEG. 5		
86	G15/A15	O/O	Hi-Z or PD	O	SEG. 4		
87	G14/A14	O/O	Hi-Z or PD	O	SEG. 3		
88	G13/A13	O/O	Hi-Z or PD	O	SEG. 2		
89	VDD	5V	5V		5V		
90	G12/A12	O/O	Hi-Z or PD	O	SEG. 1		
91	G11/A11	O/O	Hi-Z or PD	O	FL Grid12		
92	G10/A10	O/O	Hi-Z or PD	O	FL Grid11		
93	G9/A9	O/O	Hi-Z or PD	O	FL Grid10		
94	G8/A8	O/O	Hi-Z or PD	O	FL Grid 9		
95	G7/A7	O/O	Hi-Z or PD	O	FL Grid 8		
96	G6/A6	O/O	Hi-Z or PD	O	FL Grid 7		
97	G5/A5	O/O	Hi-Z or PD	O	FL Grid 6		
98	G4/A4	O/O	Hi-Z or PD	O	FL Grid 5		
99	G3/A3	O/O	Hi-Z or PD	O	FL Grid 4		
100	G2/A2	O/O	Hi-Z or PD	O	FL Grid 3		

Pin No.	Port Function	Logic	Function
4	AC WAKE UP input	50 or 60 Hz squar wave	Same as the conventional model. Normal operation mode when signals are input. When signals are absent and 2 waves are dropped, the "STOP mode" should be set. Note) To prevent incorrect operations due to noise and static electricity, implement noise removal measures.
8	SR remote controller input	SR remote controller code (no carrier, Hi active).	The output of the light-receiving section of the remote controller of the unit and output from SR IN of the light-receiving section of the remote controller of other unit are input.
9	Freq. step select input (9K/10K)	H/L	Selects frequency steps of the tuner. FM AM H 100K 10K
10	VOL.UP output	Lo active	Motor volume control. Defined as Lo when VOL.UP.
11	VOL.DOWN output	Lo active	Motor volume control. Defined as Lo when VOL.DOWN.
12	TUNED input	Hi active	Lo is input when the tuner is being tuned. "TUNED" lights up in the FL display. Functions only during TUNER FUNCTION and normally does not function.
13	STEREO input	Hi active	Lo is input when the tuner receives a stereo broadcasting. "STEREO" lights up on the FL display. Does not function when the forcible monaural is ON. Functions only during TUNER FUNCTION and normally does not function.
14	JOG 1 input	Pulse Lo input Normally H	JOG counterclockwise direction input. The input sensitivity is the same as the conventional model. (1 click, 1 step?)
15	JOG 2 input	Pulse Lo input Normally H	JOG clockwise direction input. The input sensitivity is the same as the conventional model. (1 click, 1 step?)
16-18	KEY SCAN input		KEY SCAN input of the unit key.
29	Destination select	H/L	H:/KU series model (including /SD) L:/HY series model (including /HL, YP)
32	DSP input level sensitivity	Analog input	0 to 5V input level is input to DSP. When the input level exceeds 2.1V, (ATT)"OVERLOAD" lights up on the FL display. Functions only when analog signals (including AUTO) are input to the DSP. Does not function when the front speaker is set to "LARGE" or in a 2ch playback (including DIRECT). When the front speaker is set to "SMALL", this port functions in 2ch playback (including DIRECT). AC-3 model only. Set to the output port in the PRO-LOGIC model.
33	OL.DETECT input	Lo active	Input of the protection circuit as OVERLOAD DETECTOR. When Lo is input, this port opens relays other than the AC relay. "OVERLOAD" flashes on the 8th digits of the FL display for five seconds.


NOTE: VOLTAGE AND CURRENT
mV Signal voltage at FM 1kHz, 100% MOD.
or ←V
DC voltage (V) at no input signal unless otherwise noted
Value in ( ) is DC voltage at rated power
mA or ← mA
DC current at no input signal unless otherwise noted.
Q6214 IF AMP
IF OUT
Q6214 2SC2714-TL
F6203 ATF-119
F6204 ATF-119
FM SD ADJ
IC6201 FM/AM IF DETECTION FM STEREO DECODER
IC6201 LA1836M IF+MPX
AM SD ADJ.
FORCED MONO DRIVE Q6217 XDC124EK-TL
CONSTANT-VOLTAGE POWER SUPPLY Q6203 2SC2235-T
IC6202 LM7001J PLL
IC6202 PLL IC
CN211 KP20B1A14L
N.C
N.C.
CE
DA
CL
R CH
GND
L CH
MONO
MUTE
TUNE
+12V
+5V
STEREO
C1/3 CN407

4. PCB CONNECTION DIAGRAM

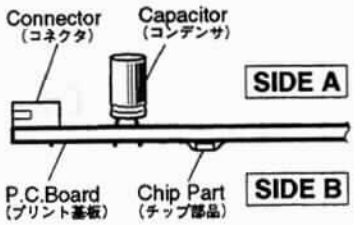
4.1 R/C SPEAKER ASSY AND MOS FET ASSY

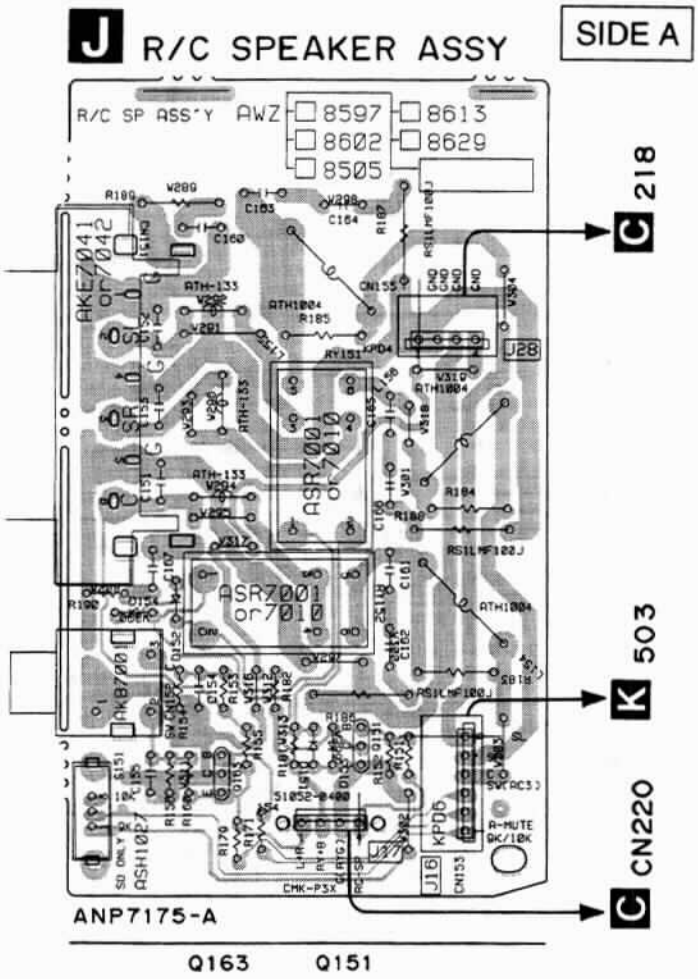
NOTE FOR PCB DIAGRAMS:

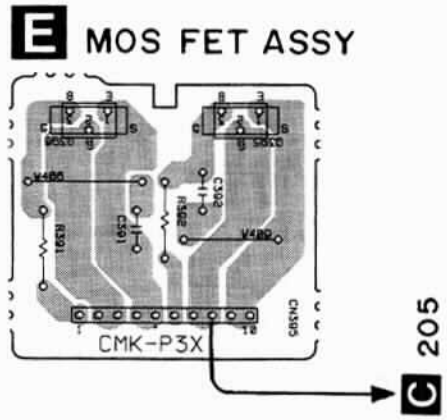
1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
B C E	B C E B C E	Transistor
B C E	B C E B C E	Transistor with resistor
D G S	D G S D G S	Field effect transistor
		Resistor array
		3-terminal regulator

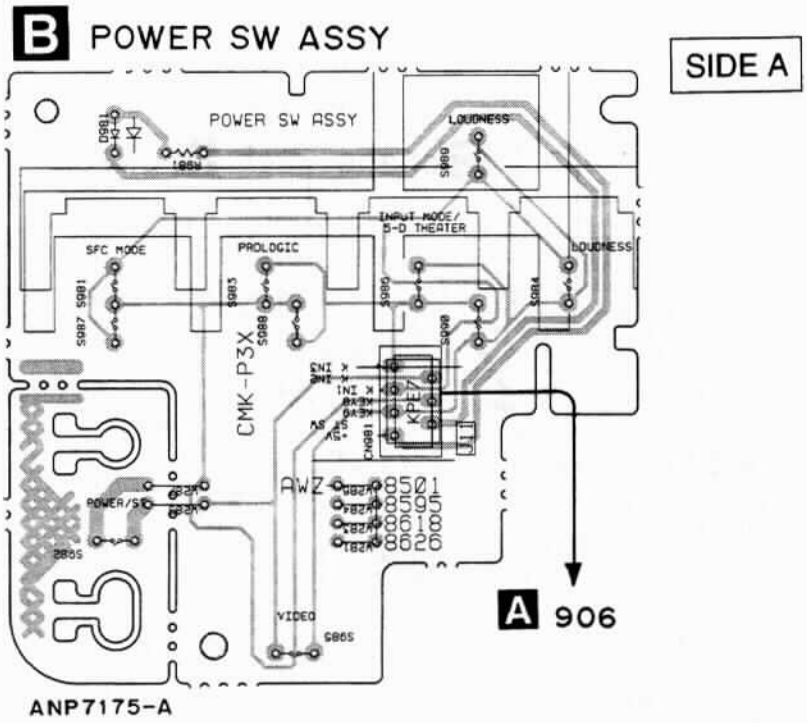
3. The parts mounted on this PCB include all necessary parts for several destinations.
   For further infromation for respective destinations, be sure to check with the schematic diagram.
4. Viewpoint of PCB diagrams

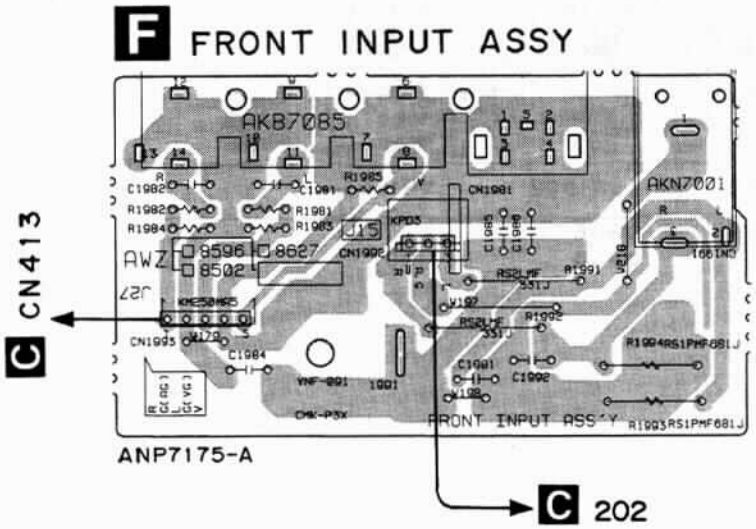




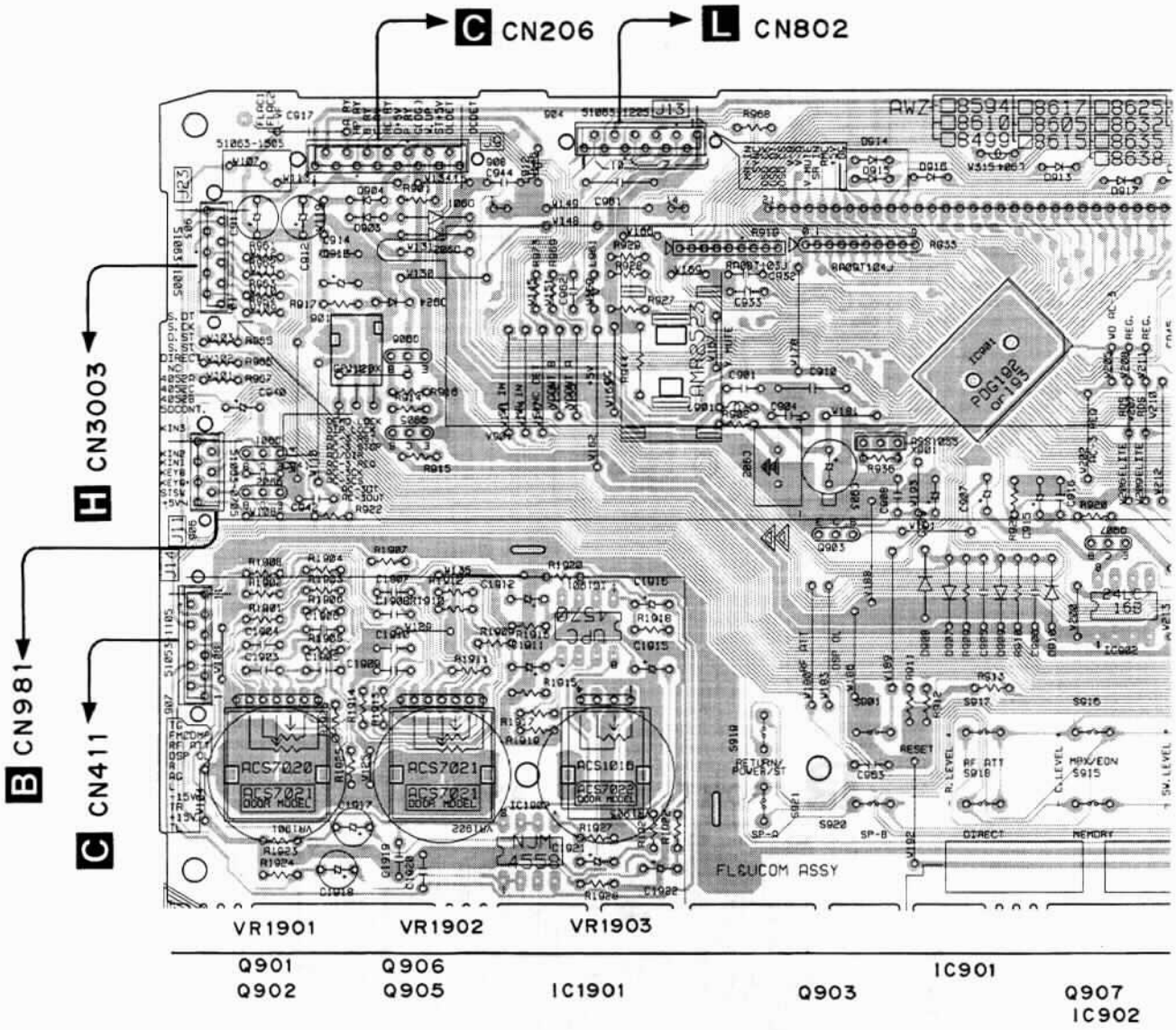


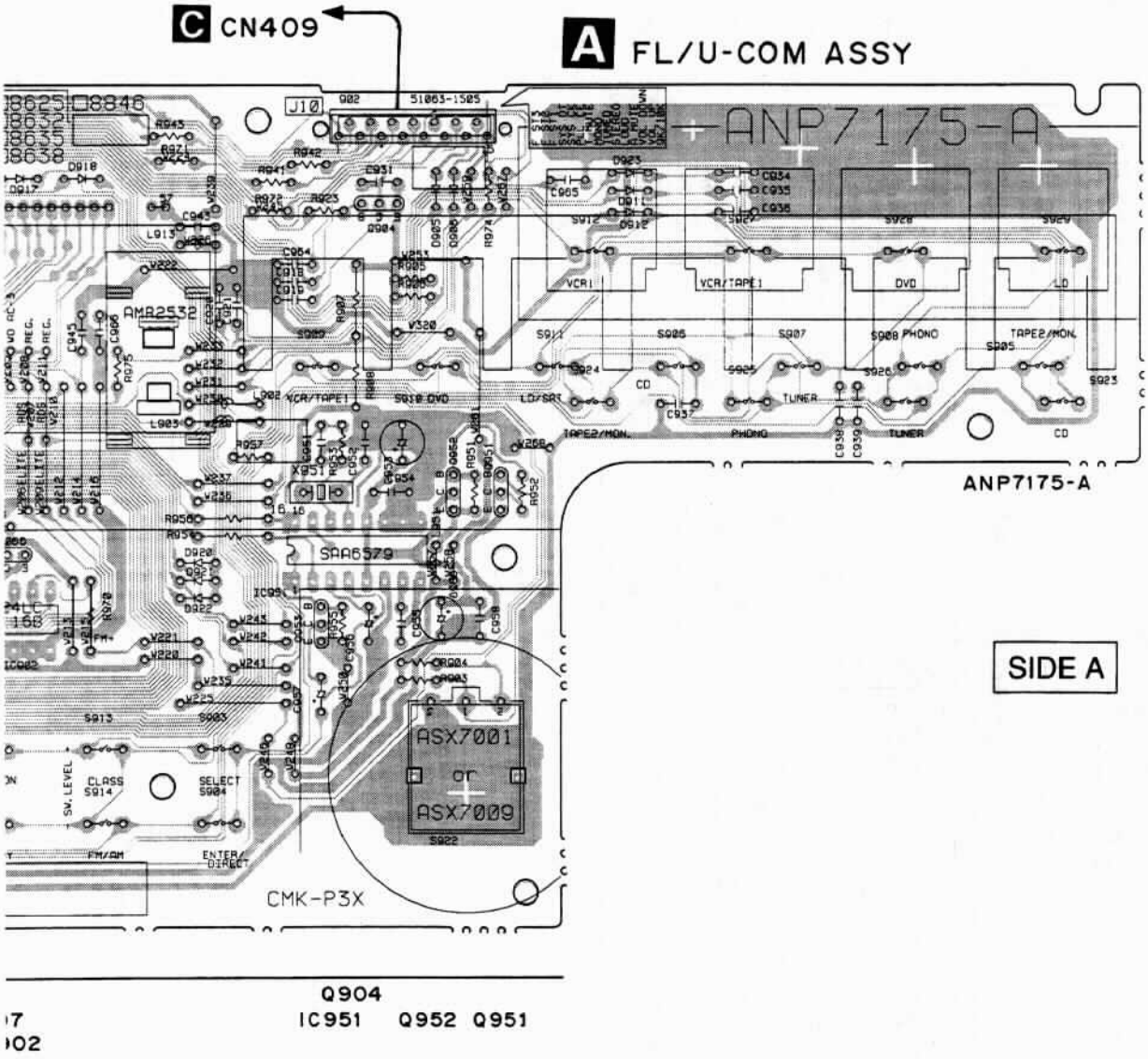
4.2 POWER SWITCH ASSY AND FRONT INPUT ASSY



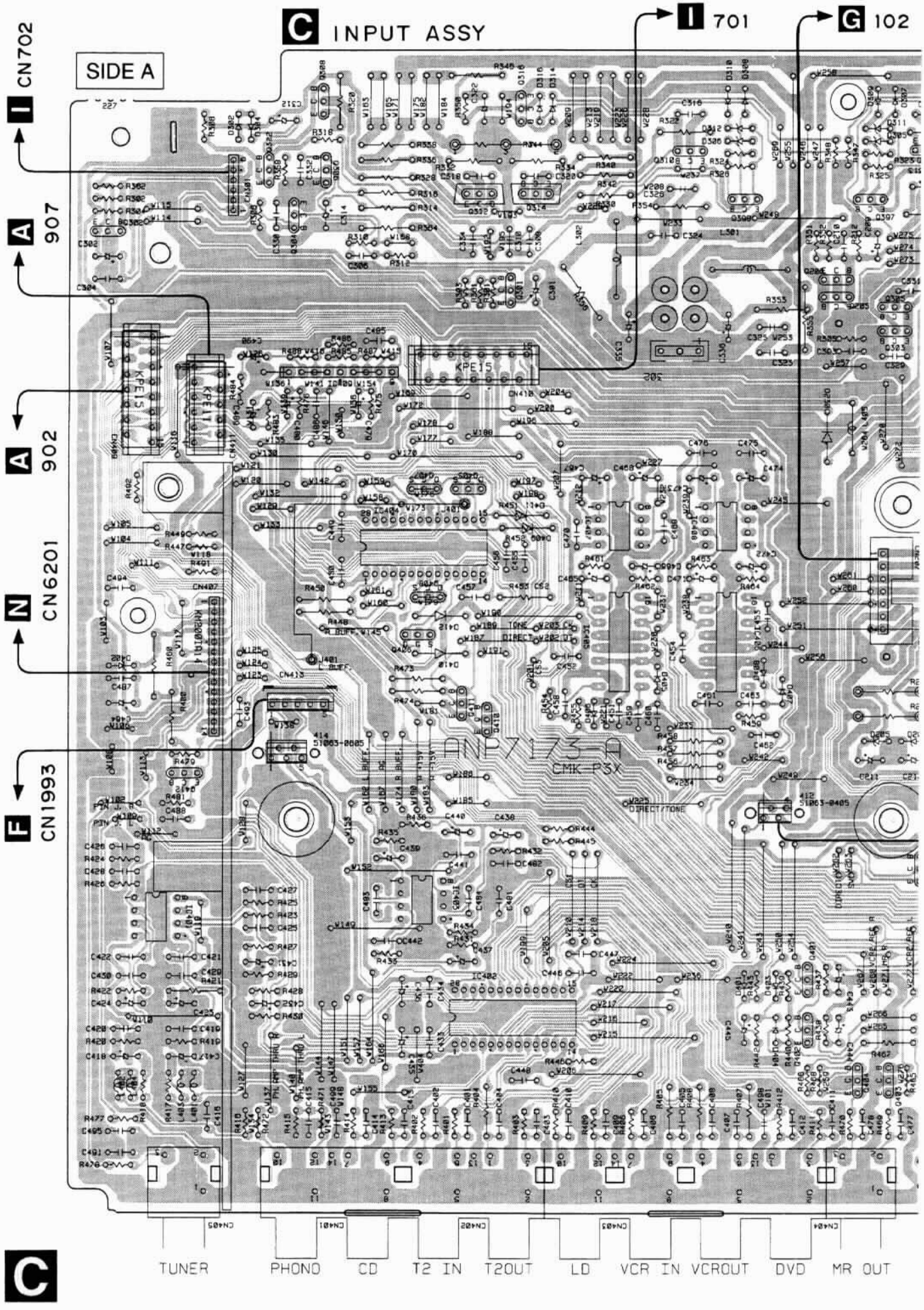


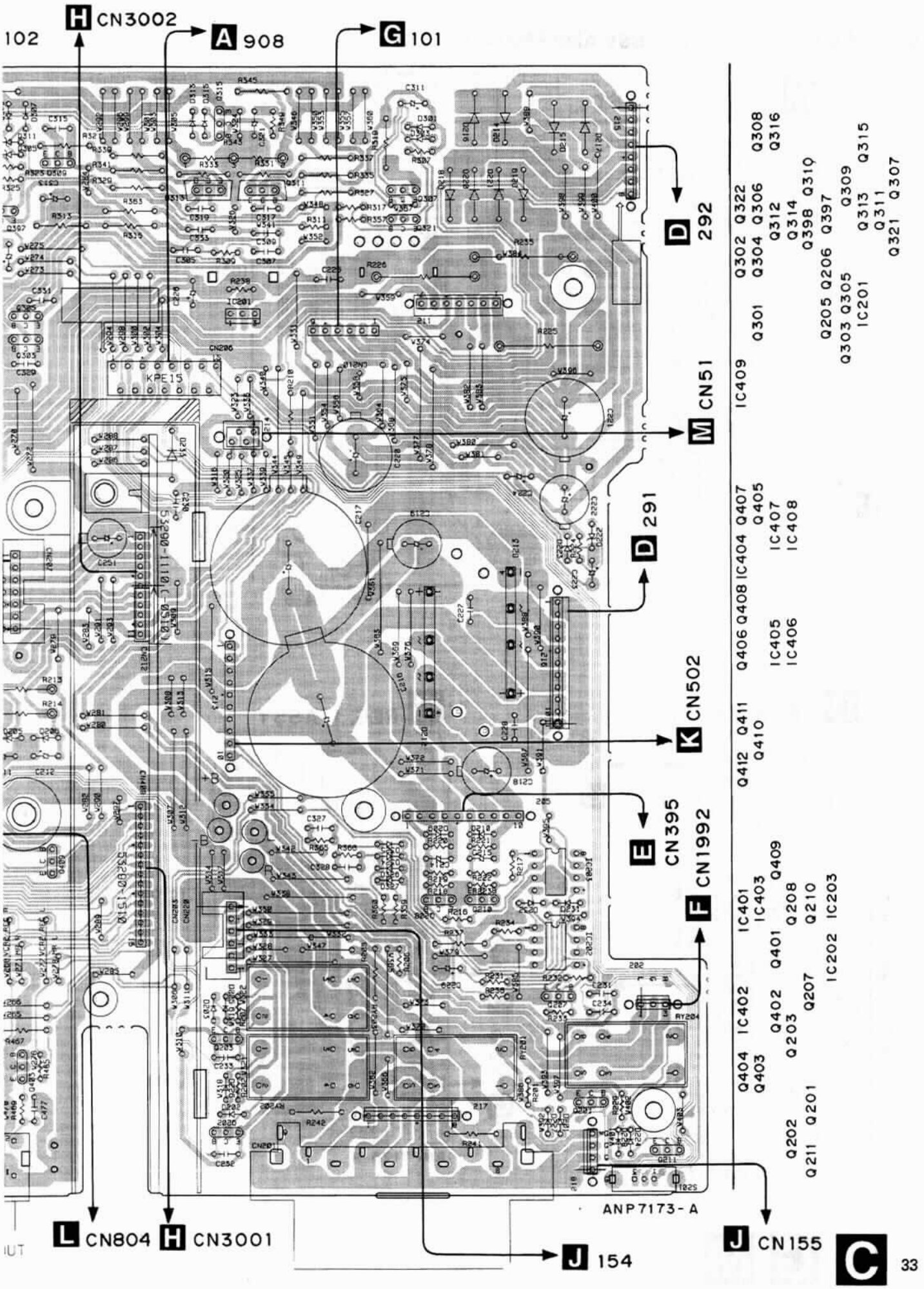
4.3 FL/U-COM ASSY



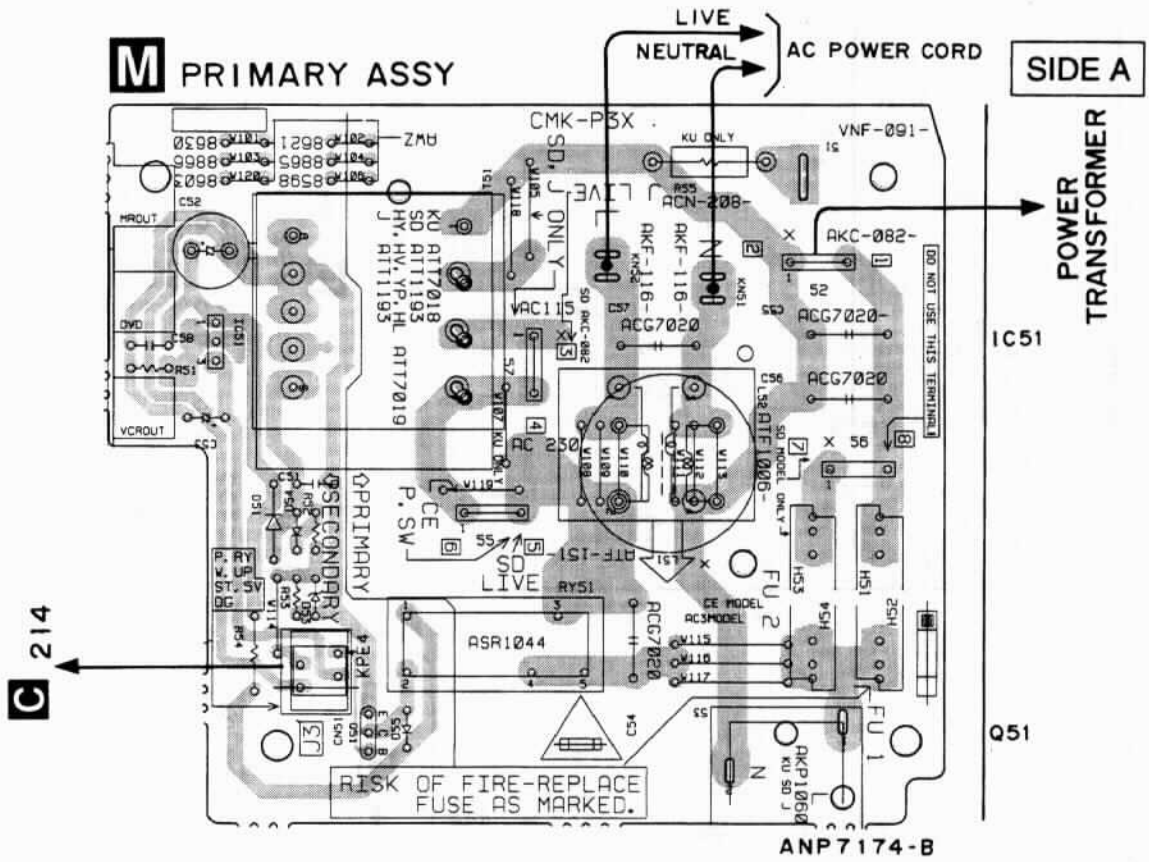

C CN409
A FL/U-COM ASSY
ANP7175-A
ANP7175-A
SIDE A
ASX7001
or
ASX7009
CMK-P3X
AMA2532
SAA6579
VCR1
VCR/TAPE1
DVD
LD
CD
TUNER
PHONO
TAPE2/MON.
Q904
IC951 Q952 Q951

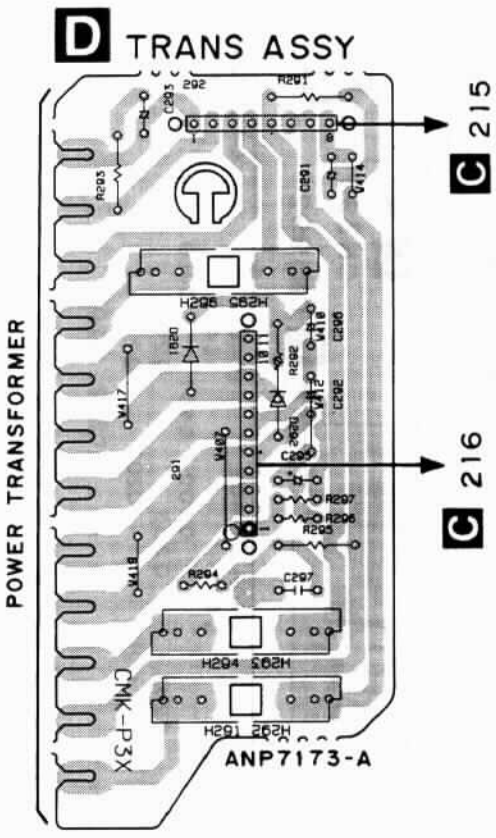
4.4 INPUT ASSY

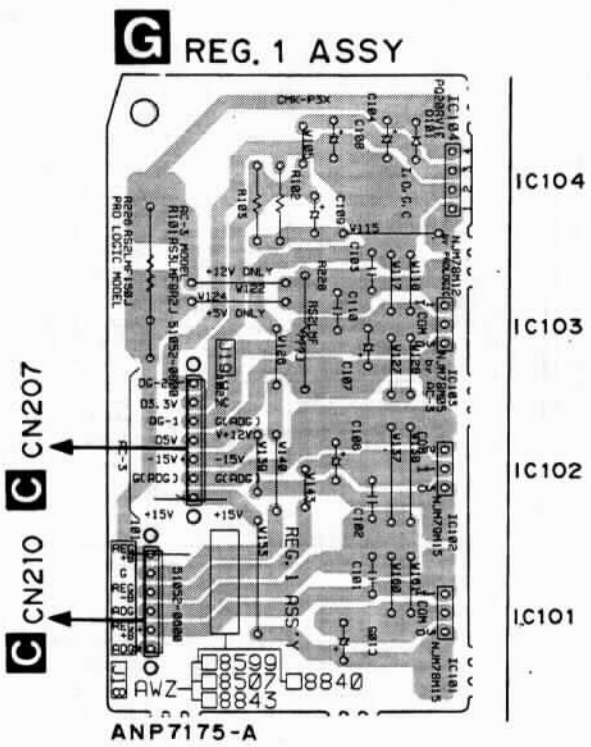



H CN3002
102
A 908
G 101
D 292
M CN51
D 291
K CN502
E CN395
F CN1992
L CN804
H CN3001
J 154
J CN155
ANP7173-A
KPE15
IC409
Q302 Q322
Q301 Q304 Q306 Q308
Q312 Q316
Q314
Q398 Q310
Q205 Q206 Q397 Q309
Q303 Q305 Q313 Q315
IC201 Q311
Q321 Q307
Q406 Q408 IC404 Q407
Q405
IC405 IC407
IC406 IC408
Q412 Q411
Q410
IC401
IC403 Q409
Q402 Q401 Q208
Q203 Q207 Q210
IC202 IC203
Q404 IC402
Q403
Q202
Q211 Q201

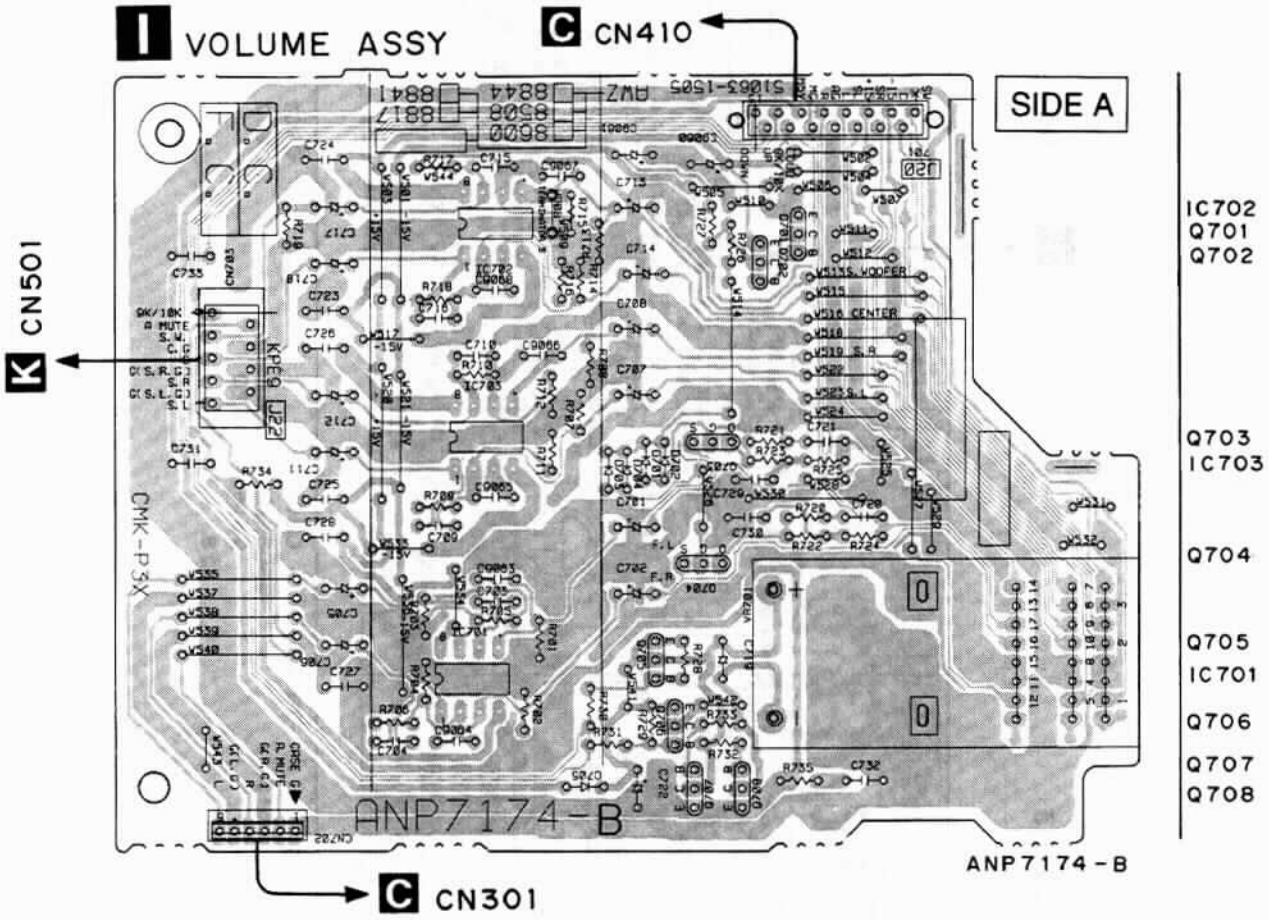
4.5 TRANS ASSY, REG.1 ASSY AND PRIMARY ASSY



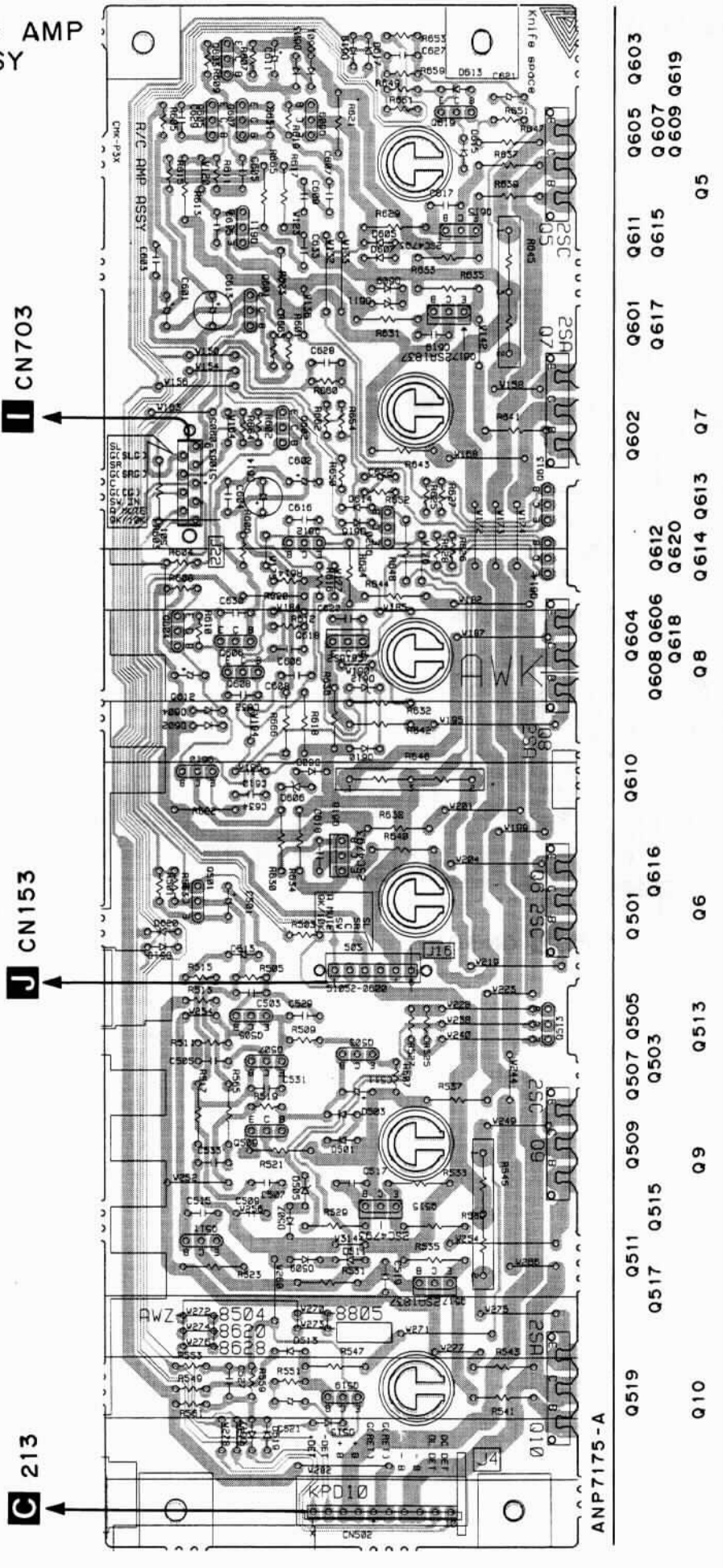




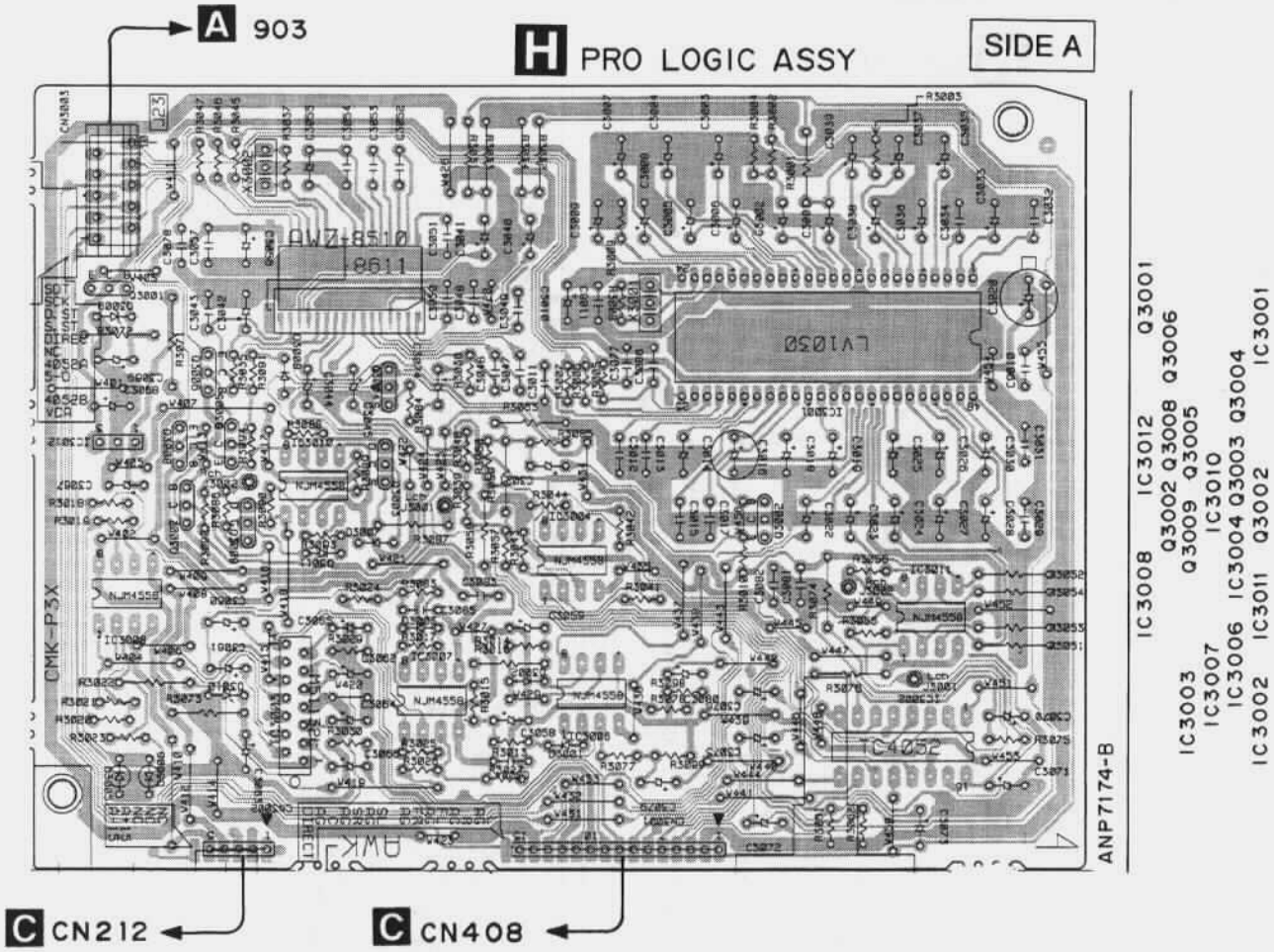
4.6 VOLUME ASSY

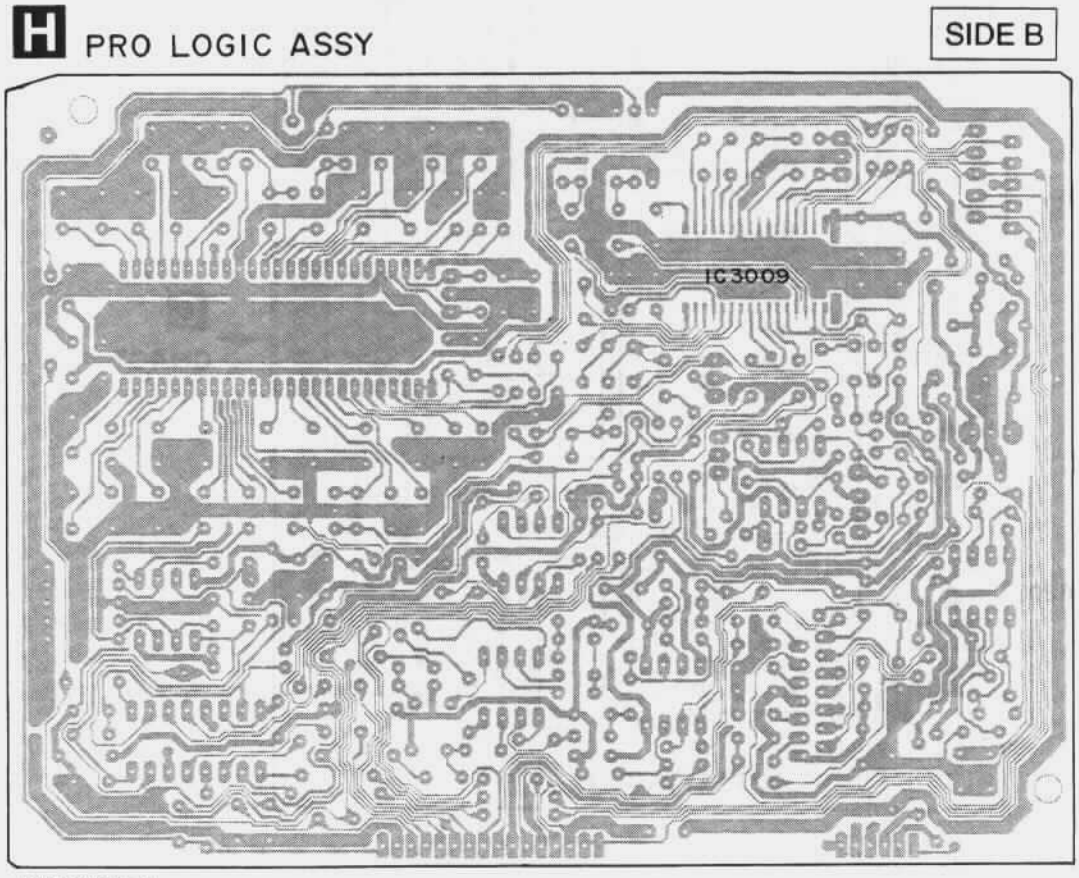


4.7 R/C AMP ASSY

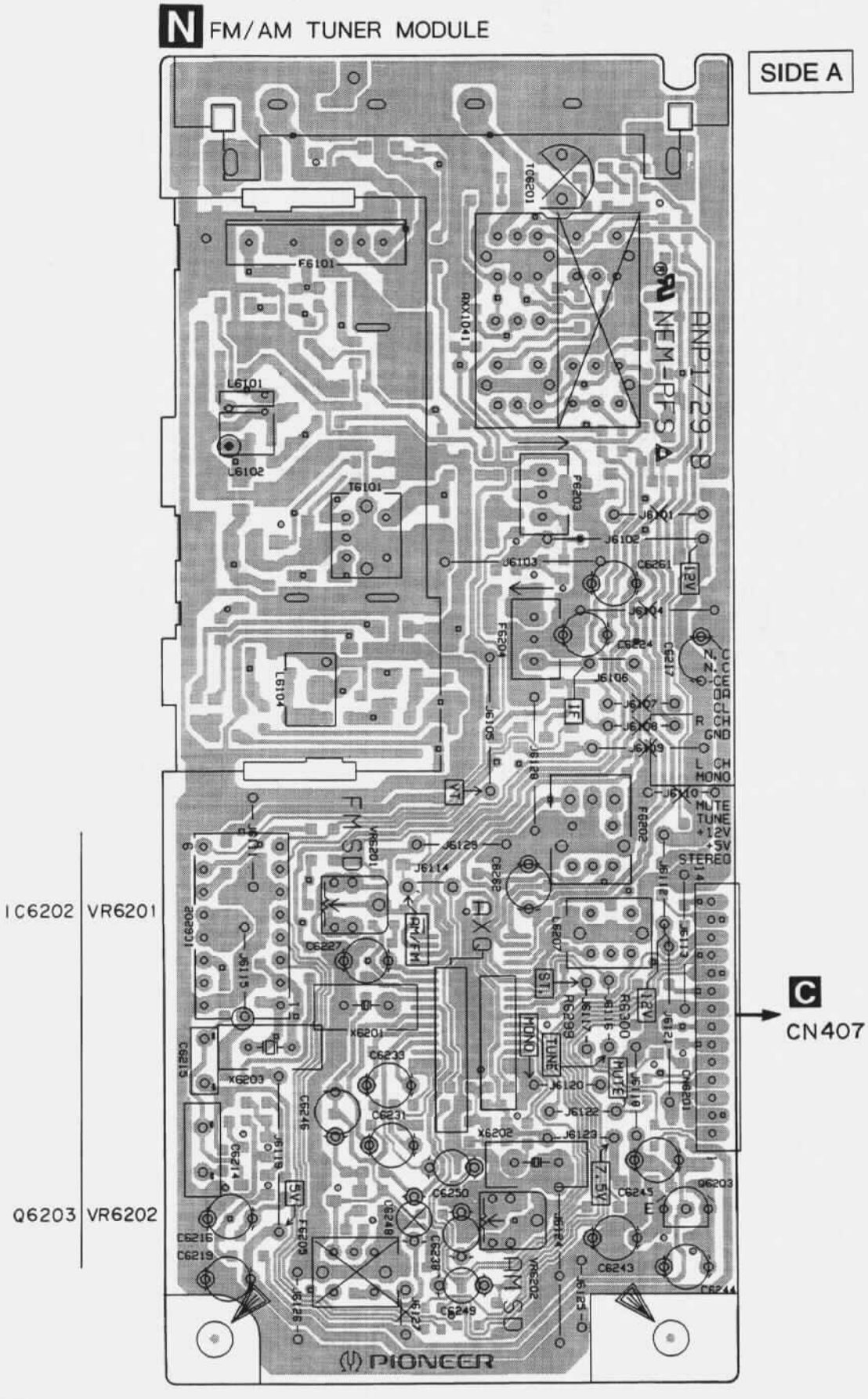


4.8 PRO LOGIC ASSY

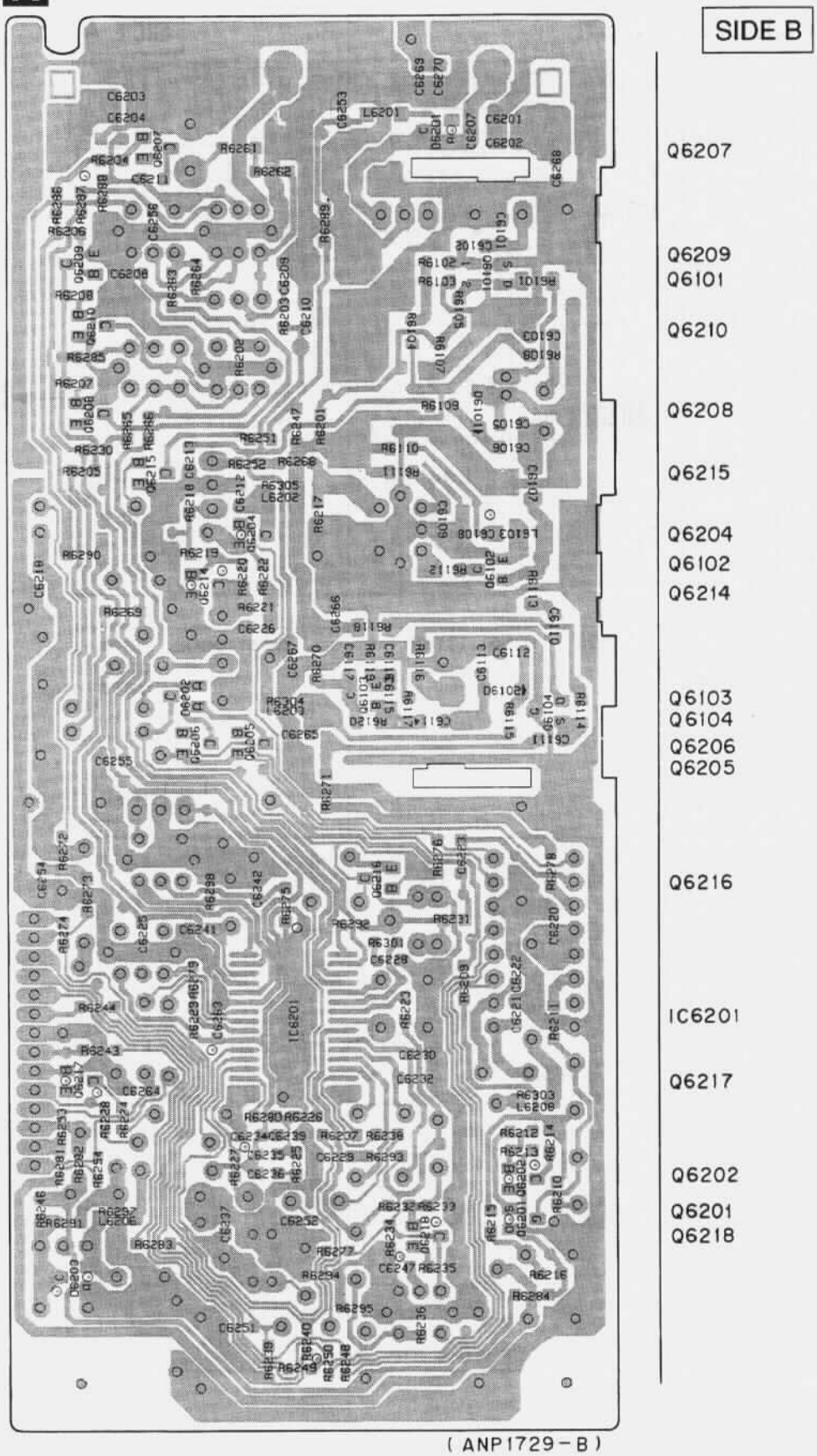




4.9 FM/AM TUNER MODULE

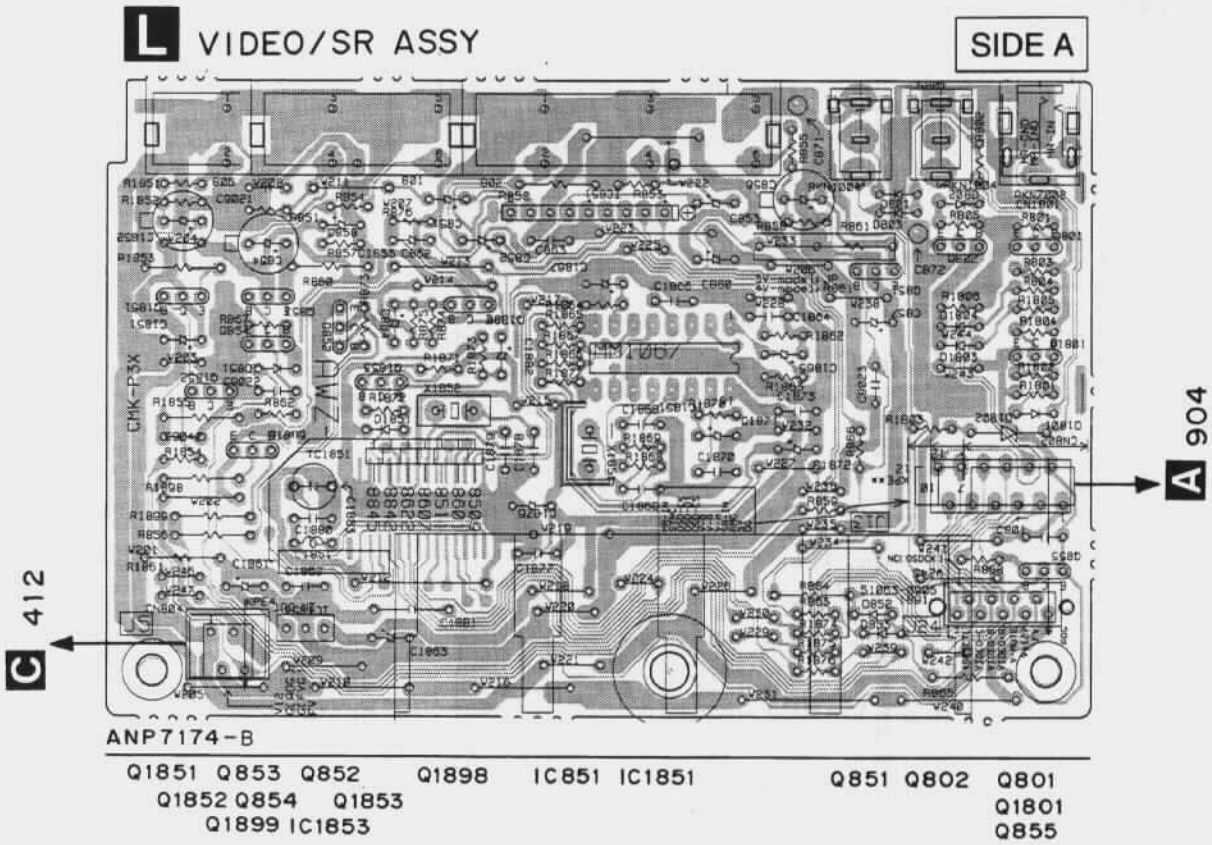


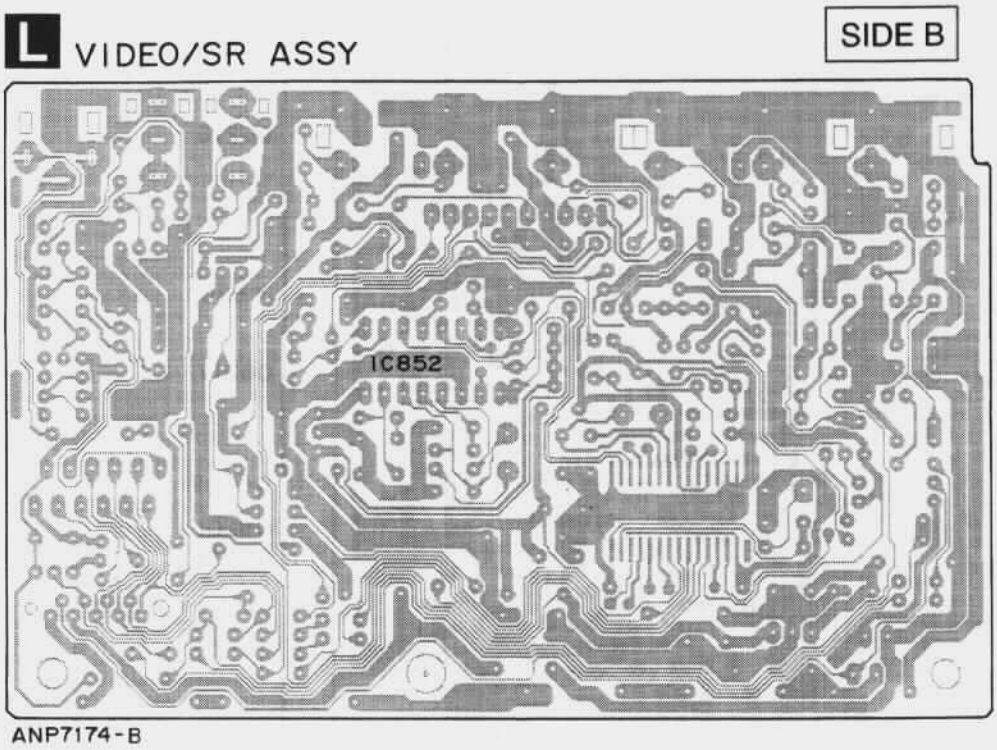
N FM/AM TUNER MODULE



(ANP1729-B)

4.10 VIDEO/SR ASSY





5. PCB PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47K ohm (tolerance is shown by J=5%, and K=10%).

560 Ω	*→ 56 × 10¹ → 561*	*RD1/4PU 5611 J*
47 kΩ	*→ 47 × 10³ → 473*	*RD1/4PU 4733 J*
0.5 Ω	*→ R50*	*RN2H R500 K*
1 Ω	*→ 1R0*	*RS1P 1R00 K*

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62 kΩ	*→ 562 × 10¹ → 5621*	*RN1/4PC 5621 F*

■ LIST OF WHOLE PCB ASSEMBLIES

Mark	PCB Assemblies	Part No.				Remarks
		VSX-D506S		VSX-456		
		KUXJI	KCXJI	KUXJI	KCXJI	
NSP	MOTHER ASSY	AWK7341	AWK7341	AWK7341	AWK7341	
NSP	├MOS FET ASSY	AWZ8497	AWZ8497	AWZ8497	AWZ8497	
	├TRANS ASSY	AWZ8593	AWZ8593	AWZ8593	AWZ8593	
	└INPUT ASSY	AWZ8609	AWZ8609	AWZ8609	AWZ8609	
	FRONT & R/C AMP ASSY	AWK7342	AWK7342	AWK7333	AWK7333	
NSP	├POWER SWITCH ASSY	AWZ8501	AWZ8501	AWZ8595	AWZ8595	
NSP	├FRONT INPUT ASSY	AWZ8502	AWZ8502	AWZ8596	AWZ8596	
NSP	├R/C SPEAKER ASSY	AWZ8597	AWZ8597	AWZ8597	AWZ8597	
	├REG. 1 ASSY	AWZ8599	AWZ8599	AWZ8599	AWZ8599	
	├FL/U-COM ASSY	AWZ8610	AWZ8610	AWZ8594	AWZ8594	
	└R/C AMP ASSY	AWZ8805	AWZ8805	AWZ8805	AWZ8805	
	COMPLEX ASSY	AWK7343	AWK7343	AWK7334	AWK7334	
NSP	├VIDEO/SR ASSY	AWZ8509	AWZ8509	AWZ8601	AWZ8601	
	├PRIMARY ASSY	AWZ8598	AWZ8598	AWZ8598	AWZ8598	
NSP	├VOLUME ASSY	AWZ8600	AWZ8600	AWZ8600	AWZ8600	
	└PRO LOGIC ASSY	AWZ8611	AWZ8611	AWZ8510	AWZ8510	
	FM/AM TUNER MODULE	AXQ7219	AXQ7219	AXQ7219	AXQ7219	

■ CONTRAST OF PCB ASSEMBLIES

B POWER SWITCH ASSY

AWZ8595, AWZ8501 have the same construction except for the following.

Mark	Srmbol & Description	Part No.		Remarks
		AWZ8501	AWZ8595	
	S985	ASG1034	Not used	

F FRONT INPUT ASSY

AWZ8596, and AWZ8502 have the same construction except for the following.

Mark	Srmbol & Description	Part No.		Remarks
		AWZ8502	AWZ8596	
	C1984-C1986	CGCYX473M16	Not used	
	R1981, R1982	RD1/4PU331J	Not used	
	R1983, R1984	RD1/4PU474J	Not used	
	R1985	RD1/4PU750J	Not used	
	CN1981	AKB7085	Not used	
	CN1993	KM250MA5	Not used	

A FL/U-COM ASSY

AWZ8594, AWZ8610 have the same construction except for the following.

Mark	Srmbol & Description	Part No.		Remarks
		AWZ8610	AWZ8594	
	D920	1SS252	Not used	

L VIDEO/SR ASSY

AWZ8601 and AWZ8509 have the same construction except for the following.

Mark	Srmbol & Description	Part No.		Remarks
		AWZ8509	AWZ8601	
	Q851, Q852, Q1898, Q1899	2SC1740S	Not used	
	C857	CEAS470M25	Not used	
	C862	Not used	CGCYX103M16	
	C864	CEAS4R7M50	Not used	
	C1853	CEANP4R7M50	Not used	
	R855	RD1/4PU680J	RD1/4PU750J	
	R856, R866, R876, R1899	RD1/4PU102J	Not used	
	R861	RD1/4PM331J	Not used	
	R873, R1898	RD1/4PM471J	Not used	
	R874, R875	RD1/4PU473J	Not used	

H PRO LOGIC ASSY

AWZ8510 and AWZ8611 have the same construction except for the following.

Mark	Srmbol & Description	Part No.		Remarks
		AWZ8611	AWZ8510	
	IC3009	M65849FP	Not used	
	Q3001	2SD468	Not used	
	Q3002	Not used	2SA933S	
	Q3004	2SK246	Not used	
	Q3005, Q3006	KRC103M	Not used	
	D3008	1SS252	Not used	
	D3009	MTZJ5.1C	Not used	
	C3040, C3041	CEAS1R0M50	Not used	
	C3042, C3044, C3045	CEAS2R2M50	Not used	
	C3043	CKCYB471K50	Not used	
	C3046	CFTXA683J50	Not used	
	C3047, C3053	CQMA222J50	Not used	
	C3048, C3054	CFTXA103J50	Not used	
	C3049, C3052	CFTXA683J50	Not used	
	C3050, C3051	CFTXA104J50	Not used	
	C3055	CEANP1R0M50	Not used	
	C3056	CEAS470M10	Not used	
	C3057	CGCYX104M25	Not used	
	C3069	CEAS470M16	Not used	
	C3074	CEANL4R7M50	Not used	
	R3010	Not used	RD1/4PU472J	
	R3031, R3032	RD1/4PU752J	Not used	
	R3033, R3034	RD1/4PU103J	Not used	
	R3035, R3036	RD1/4PU473J	Not used	
	R3037	RD1/4PU105J	Not used	
	R3039, R3040	RD1/4PU224J	Not used	
	R3041, R3042	RD1/4PU102J	RD1/4PU682J	
	R3043, R3044	RD1/4PU102J	RD1/4PU752J	
	R3045, R3046, R3047	RD1/4PU102J	Not used	
	R3057, R3058	Not used	RD1/4PU683J	
	R3059, R3060	Not used	RD1/4PU753J	
	R3072	RD1/4PU681J	Not used	
	R3084	RD1/4PU104J	Not used	
	R3091	RD1/4PU475J	Not used	
	R3094	RD1/4PU223J	Not used	
	X3002	ASS7014	Not used	

■PARTS LIST FOR VSX-D506S

Mark	No.	Description	Parts No.
E	**MOS FET ASSY**		
	SEMICONDUCTORS		
	Q395	POWER MOS FET	IRF540A
	Q396	POWER MOS FET	IRF9540A
	RESISTORS		
⚠	R391, R392	CARBON FILM RESISTOR	RD1/4PMF101J
	Other Resistors	CARBON FILM RESISTOR	RD1/4PU□□□J
D	**TRANS ASSY**		
	SEMICONDUCTORS		
	D291,D292	DIODE	S5688G
	CAPACITORS		
	C295	ELECT. CAPACITOR	CEAS470M50
	RESISTORS		
	All Resistors	CARBON FILM RESISTOR	RD1/4PU□□□J
	OTHERS		
	H291-H294	FUSE CLIP	AKR1004
		CABLE HOLDER(11P)	51052-1100
		CABLE HOLDER(8P)	51052-0800
C	**INPUT ASSY**		
	SEMICONDUCTORS		
	IC201	REGULATOR IC	NJM78M56FA
	IC202,IC203	OP-AMP IC	NJM4558D-D
	IC401	OP-AMP IC	NJM4558D-D
	IC402	ANALOG SWITCH IC	TC9273N-007
	IC403	OP-AMP IC	NJM4558D-D
	IC409	OP-AMP IC	UPC4570HA
	Q201-Q203	TRANSISTOR	KRC101M
	Q205,Q206	TRANSISTOR	2SC1740S
	Q207	TRANSISTOR	2SC2878
	Q208	TRANSISTOR	2SC2705
	Q210	TRANSISTOR	2SA1145
	Q211	TRANSISTOR	KRC101M
	Q301,Q302	TRANSISTOR	2SC2878
	Q303-Q306	TRANSISTOR	2SA992
⚠	Q307,Q308	TRANSISTOR	2SA1321
⚠	Q309,Q310	TRANSISTOR	2SC3334
⚠	Q311,Q312	TRANSISTOR	2SC4793
⚠	Q313,Q314	TRANSISTOR	2SA1837
	Q315,Q316	TRANSISTOR	2SC2240
	Q321,Q322	TRANSISTOR	2SA970
	Q397,Q398	TRANSISTOR	2SC1740S
	D201-D203	DIODE	1SS252
	D209,D210	ZENNER DIODE	MTZJ18B
	D212,D213	DIODE	D5SBA20
	D214-D217	DIODE	S5688G
	D222	ZENER DIODE	MTZJ4.3C
	D223	ZENNER DIODE	MTZJ18B
	D224	DIODE	1SS252
	D230-D233	DIODE	1SS252
	D301-D304	DIODE	1SS252
	D313-D316	DIODE	1SS252
	D324-D327	DIODE	1SS252
	D402	ZENER DIODE	MTZJ5.1B
	COILS AND FILTERS		
	L301,L302	COIL	ATH1004
	SWITCHS AND RELAYS		
	S201	SLIDE SWITCH	ASH1027
	RY201-RY204	RELAY	ASR7001
	CAPACITORS		
	C209	ELECT. CAPACITOR	CEAS221M10
	C210	CERAMIC CAPACITOR	CKCYB102K50
	C214,C215	ELECT. CAPACITOR	CEAS1R0M50
	C216,C217	ELECT. CAPACITOR (8200μF/71V)	ACH7018
	C218,C219	ELECT. CAPACITOR	CEAS101M2A
	C221	ELECT. CAPACITOR	CEAS222M35
	C222	ELECT. CAPACITOR	CEAS102M35
	C223	ELECT. CAPACITOR	CEAS470M16
	C224	ELECT. CAPACITOR	CEAS470M25
	C225	CERAMIC CAPACITOR	CKCYF103Z50
	C226	ELECT. CAPACITOR	CEAS101M10
	C227,C228	CKA (0.01μF/AC250V)	ACG1005
	C229	ELECT. CAPACITOR	CEAS4R7M50
	C301,C302	ELECT. CAPACITOR	CEAS2R2M50
	C303,C304	CERAMIC CAPACITOR	CCCSL151J50
	C305,C306	CERAMIC CAPACITOR	CKCYB102K2H
	C307, C308	CERAMIC CAPACITOR	CCCSL100D2H
	C311,C312	ELECT. CAPACITOR	CEAS101M10
	C313,C314	ELECT. CAPACITOR	CEAS101M25
	C315,C316	CERAMIC CAPACITOR	CCCSL5R0C2H
	C317-C320	CERAMIC CAPACITOR	CCCSL101K2H
	C321,C322	ELECT. CAPACITOR	CEANP2R2M50
	C323,C324	AUDIO FILM CAPACITOR	CFTXA473J50
	C335,C336	ELECT. CAPACITOR	CEAS4R7M2A
	C417,C418	ELECT. CAPACITOR	CEAS100M50
	C423,C424	ELECT. CAPACITOR	CEAS101M25
	C425,C426	PLASTIC FILM CAPACITOR	CQMA822J50
	C427,C428	PLASTIC FILM CAPACITOR	CQMA242J50
	C429,C430	CERAMIC CAPACITOR	CGCYX473M25
	C431,C432	ELECT. CAPACITOR	CEAS4R7M50
	C433,C434	CERAMIC CAPACITOR	CGCYX473M25
	C437,C438	ELECT. CAPACITOR	CEAS2R2M50
	C439,C440	ELECT. CAPACITOR	CEAS470M25
	C441,C442	CERAMIC CAPACITOR	CGCYX473M25
	C446-C448	CERAMIC CAPACITOR	CCCSL101J50
	C464	ELECT. CAPACITOR	CEAS470M25
	C479,C480	ELECT. CAPACITOR	CEAS4R7M50
	C485,C486	CERAMIC CAPACITOR	CKCYF103Z50
	C487	CERAMIC CAPACITOR	CGCYX473M25
	C489,C490	ELECT. CAPACITOR	CEAS4R7M50
	C491	CERAMIC CAPACITOR	CGCYX103M16
	C495	CERAMIC CAPACITOR	CGCYX104M12

Mark	No.	Description	Parts No.
RESISTORS			
	R241,R242	CARBON FILM RESISTOR	RD1/4PMF103J
	R313,R314	CARBON FILM RESISTOR	RD1/4PM362J
	R315,R316	CARBON FILM RESISTOR	RD1/4PM104J
	R319,R320	CARBON FILM RESISTOR	RD1/4LMF680J
⚠	R321,R322	FUSLIBLE RESISTOR	RF1/4PS101J
⚠	R327-R334	CARBON FILM RESISTOR	RD1/4PMF101J
⚠	R335,R336	FUSLIBLE RESISTOR	RF1/4PS8R2J
⚠	R337-R340	FUSIBLE RESISTOR	RF1/4PS4R7J
⚠	R341,R342	FUSIBLE RESISTOR	RF1/4PS8R2J
⚠	R343,R344	FUSIBLE RESISTOR (0.33Ω,5W)	ACN-139
⚠	R345,R346	CARBON FILM RESISTOR	RD1/4PMF472J
⚠	R353,R354	CARBON FILM RESISTO	RRD1/4PMF100J
	R355,R356	METAL OXIDE RESISTOR	RS1LMF100J
	R460	METAL OXIDE RESISTOR	RS1PMF181J
	Other Resistors	CARBON FILM RESISTOR	RD1/4PU□□□J
OTHERS			
		CABLE HOLDER(3P)	51052-0300
		CABLE HOLDER(10P)	51052-1000
		CABLE HOLDER(4P)	51063-0405
		CABLE HOLDER(8P)	51052-0800
		CABLE HOLDER(11P)	51052-1100
		CABLE HOLDER(4P)	51052-0400
		GROUND PLATE	VNF-091
		PIN JACK(4P)	AKB7014
		CABLE HOLDER(4P)	51063-0405
	CN201	SPEAKER TERMINAL 8-P	AKE7006
	CN206	CONNECTOR(15P)	KPE15
	CN212	5P PLUG	KM200TA5
	CN301	6P PLUG	KM200TA6
	CN401,CN402	PIN JACK(4P)	AKB7015
	CN404	PIN JACK(4P)	AKB7015
	CN407	14P PLUG	KM200IA14
	CN408	15P PLUG	KM200TA15
	CN409,CN410	CONNECTOR(15P)	KPE15
	CN411	CONNECTOR(11P)	KPE11
	CN413	PLUG 5-P	KM250MA5

B POWER SW ASSY

Mark	No.	Description	Parts No.
SEMICONDUCTORS			
	D981	LED(RED)	AEL1065
SWITCHS AND RELAYS			
	S981-S986	SWITCH	ASG1034
RESISTORS			
	R981	CARBON FILM RESISTOR	RD1/4PU271J
OTHERS			
	CN981	CONNECTOR(7P)	KPE7

F FRONT INPUT ASSY

Mark	No.	Description	Parts No.
CAPACITORS			
	C1984-C1986	CERAMIC CAPACITOR	CGCYX473M16
RESISTORS			
	R1991, R1992	METAL OXIDE RESISTOR	RS2LMF331J
OTHERS			
	CN1981	PIN JACK(3P)	AKB7085
	CN1991	JACK	AKN7001
	CN1993	PLUG 5-P	KM250MA5

J R/C SPEAKER ASSY

Mark	No.	Description	Parts No.
SEMICONDUCTORS			
	Q151	TRANSISTOR	2SC1740S
	Q163	TRANSISTOR	2SC2878
	D151,D152	DIODE	1SS252
COILS AND FILTERS			
	L154-L156	COIL	ATH1004
SWITCHS AND RELAYS			
	RY151,RY152	RELAY	ASR7001
CAPACITORS			
	C161,C163	AUDIO FILM CAPACITOR	CFTXA473J50
	C165	AUDIO FILM CAPACITOR	CFTXA473J50
RESISTORS			
	R183-R185	CARBON FILM RESISTOR	RD1/4PMF100J
	R186-R188	METAL OXIDE RESISTOR	RS1LMF100J
	Other Resistors	CARBON FILM RESISTOR	RD1/4PU□□□J
OTHERS			
		CABLE HOLDER(4P)	51052-0400
	CN151	SPEAKER TERMINAL 6-P	AKE7041
	CN152	2P PIN JACK	AKB7001

G REG.1 ASSY

Mark	No.	Description	Parts No.
SEMICONDUCTORS			
	IC101	REGULATOR IC	NJM78M15FA
	IC102	REGULATOR IC	NJM79M15FA
	IC103	REGULATOR IC	NJM78M12FA
CAPACITORS			
	C101-C103	CERAMIC CAPACITOR	CKCYF103Z50
	C105-C107	ELECT. CAPACITOR	CEAS101M16
RESISTORS			
⚠	R226	METAL OXIDE RESISTOR	RS2LMF150J
OTHERS			
		CABLE HOLDER(6P)	51052-0600
		CABLE HOLDER(7P)	51052-0700

A FL/U-COM ASSY

Mark	No.	Description	Parts No.
SEMICONDUCTORS			
	IC1901	OP-AMP IC	UPC4570C

Mark	No.	Description	Parts No.
	IC1902	OP-AMP IC	NJM4558D-D
	IC901	CONTROL MCU	PDG197A
	Q901	TRANSISTOR	KRC101M
	Q902	TRANSISTOR	KRC103M
	Q903	TRANSISTOR	KRC101M
	Q904	TRANSISTOR	2SA933S
	Q905,Q906	TRANSISTOR	2SC1740S
	D901-D912	DIODE	1SS252
	D914-D918	DIODE	1SS252
	D920	DIODE	1SS252
	D923,D924	DIODE	1SS252
COILS AND FILTERS			
	L901	AXIAL INDUCTOR	LAU2R2J
SWICHS AND RELAYS			
	S903-S911	SWITCH	ASG1034
	S913-S916	SWITCH	ASG1034
	S919-S921	SWITCH	ASG1034
	S922	ROTARY ENCODER	ASX7001
CAPACITORS			
	C1903,C1904	AUDIO FILM CAPACITOR	CFTXA473J50
	C1905,C1906	AUDIO FILM CAPACITOR	CFTXA274J50
	C1907,C1908	AUDIO FILM CAPACITOR	CFTXA123J50
	C1909,C1910	AUDIO FILM CAPACITOR	CFTXA563J50
	C1911,C1912	ELECT. CAPACITOR	CEAS100M50
	C1915-C1918	ELECT. CAPACITOR	CEAS100M50
	C1919,C1920	CERAMIC CAPACITOR	CGCYX103M16
	C1921,C1922	ELECT. CAPACITOR	CEAS2R2M50
	C901	CERAMIC CAPACITOR	CKPUYY103M16
	C902	CAPACITOR(???)	ACH7058
	C903	ELECT. CAPACITOR	CEAS221M10
	C904	CERAMIC CAPACITOR	CKPUYY103M16
	C905,C906	CERAMIC CAPACITOR	CKPUYF473Z16
	C907	ELECT. CAPACITOR	CEAS2R2M50
	C908	CERAMIC CAPACITOR	CGCYX104M16
	C909	ELECT. CAPACITOR	CEAS2R2M50
	C910	AXIAL CAPACITOR	CKPYF103Z50
	C911	ELECT. CAPACITOR	CEAS101M25
	C912	ELECT. CAPACITOR	CEAS470M50
	C913	ELECT. CAPACITOR	CEAS470M25
	C914	CERAMIC CAPACITOR	CKCYF103Z50
	C917	AXIAL CAPACITOR	CKPUYB101K50
	C918	CERAMIC CAPACITOR	CKPUYY103M16
	C919	CERAMIC CAPACITOR	CKPUYB102K50
	C931	AXIAL CAPACITOR	CKPUYB101K50
	C932,C933	AXIAL CAPACITOR	CCPUSL220J50
	C934-C939	AXIAL CAPACITOR	CKPUYB101K50
	C940	ELECT. CAPACITOR	CEAS470M16
	C941,C942	AXIAL CAPACITOR	CKPUYB101K50
	C943,C944	CERAMIC CAPACITOR	CKPUYF103Z25
	C945,C965	CERAMIC CAPACITOR	CKPUYY103M16
RESISTORS			
	R919	RESISTOR ARRAY (10K)	RA8T103J

Mark	No.	Description	Parts No.
	VR1901,VR1902	VARIABLE RESISTOR (100KΩ)	ACS7020
	VR1903	VARIABLE (500-X1)	ACS1016
	Other Resistors	CARBON FILM RESISTOR	RD1/4PU□□□J
OTHERS			
		REMOTE RECEIVER UNIT	GP1U28X
		CABLE HOLDER(15P)	51063-1505
		CABLE HOLDER(10P)	51063-1005
		CABLE HOLDER(12P)	51063-1205
		CABLE HOLDER(7P)	51063-0705
		CABLE HOLDER(11P)	51063-1105
		CABLE HOLDER(15P)	51063-1505
	V901	FL TUBE	AAV7035
	X901	CERAMIC RESONATOR (7.70MHz)	ASS1055

K R/C AMP ASSY

SEMICONDUCTORS

Mark	No.	Description	Parts No.
	Q501	TRANSISTOR	2SC2878
	Q503	TRANSISTOR	2SA970
	Q505,Q507	TRANSISTOR	2SA992
	Q509	TRANSISTOR	2SA1321
	Q511	TRANSISTOR	2SC3334
⚠	Q513	TRANSISTOR	2SC1740S
⚠	Q515	POWER TR	2SC4793
⚠	Q517	POWER TR	2SA1837
	Q519	TRANSISTOR	2SC2240
	Q601,Q602	TRANSISTOR	2SC2878
	Q603,Q604	TRANSISTOR	2SA970
	Q605-Q608	TRANSISTOR	2SA992
	Q609,Q610	TRANSISTOR	2SA1321
	Q611,Q612	TRANSISTOR	2SC3334
⚠	Q613,Q614	TRANSISTOR	2SC1740S
⚠	Q615,Q616	POWER TRANSISTOR	2SC4793
⚠	Q617,Q618	POWER TRANSISTOR	2SA1837
	Q619,Q620	TRANSISTOR	2SC2240
	D501,D503	DIODE	1SS252
	D513,D515	DIODE	1SS252
	D517,D519	DIODE	1SS252
	D601-D604	DIODE	1SS252
	D613-D620	DIODE	1SS252

CAPACITORS

	C501	ELECT. CAPACITOR	CEAS2R2M50
	C503	CERAMIC CAPACITOR	CCCSL151J50
	C505	CERAMIC CAPACITOR	CKCYB102K2H
	C507	CERAMIC CAPACITOR	CCCSL120K2H
	C511	ELECT. CAPACITOR	CEAS101M10
	C513	ELECT. CAPACITOR	CEAS101M25
	C515	CERAMIC CAPACITOR	CCCSL5R0C2H
	C517,C519	CERAMIC CAPACITOR	CCCSL101K2H
	C521	ELECT. CAPACITOR	CEANP2R2M50
	C601,C602	ELECT. CAPACITOR	CEAS2R2M50
	C603,C604	CERAMIC CAPACITOR	CCCSL151J50
	C605,C606	CERAMIC CAPACITOR	CKCYB102K2H

Mark	No.	Description	Parts No.
	C607,C608	CERAMIC CAPACITOR	CCCSL120K2H
	C611,C612	ELECT. CAPACITOR	CEAS101M10
	C613,C614	ELECT. CAPACITOR	CEAS101M25
	C615,C616	CERAMIC CAPACITOR	CCCSL5R0C2H
	C617-C620	CERAMIC CAPACITOR	CCCSL101K2H
	C621,C622	ELECT. CAPACITOR	CEANP2R2M50
RESISTORS			
	R517	CARBON FILM RESISTOR	RD1/4PM104J
	R521	CARBON FILM RESISTOR	RD1/4LMF680J
⚠	R523	FUSLIBLE RESISTOR	RF1/4PS101J
⚠	R529,R531	CARBON FILM RESISTOR	RD1/4PMF101J
⚠	R533,R535	CARBON FILM RESISTOR	RD1/4PMF101J
⚠	R537	FUSIBLE RESISTOR	RF1/4PS8R2J
⚠	R539,R541	FUSLIBLE RESISTOR	RF1/4PS4R7J
⚠	R543	FUSIBLE RESISTOR	RF1/4PS8R2J
⚠	R545	RESISTOR (0.33Ω, 5W)	ACN-139
⚠	R547	CARBON FILM RESISTOR	RD1/4PMF472J
	R617,R618	CARBON FILM RESISTOR	RD1/4PM104J
	R621,R622	CARBON FILM RESISTOR	RD1/4LMF680J
⚠	R623,R624	FUSIBLE RESISTOR	RF1/4PS101J
⚠	R629-R636	CARBON FILM RESISTOR	RD1/4PMF101J
⚠	R637,R638	FUSIBLE RESISTOR	RF1/4PS8R2J
⚠	R639-R642	FUSLIBLE RESISTOR	RF1/4PS4R7J
⚠	R643,R644	FUSIBLE RESISTOR	RF1/4PS8R2J
⚠	R645,R646	RESISTOR (0.33Ω, 5W)	ACN-139
⚠	R647,R648	CARBON FILM RESISTOR	RD1/4PMF472J
	Other Resistors	CARBON FILM RESISTOR	RD1/4PU□□□J
OTHERS			
		CABLE HOLDER(9P)	51063-0905
		CABLE HOLDER(6P)	51052-0600

L VIDEO S/R ASSY

SEMICONDUCTORS

IC851	VIDEO SEITCH	LA7952
Q1898, Q1899	TRANSISTOR	SC1740S
Q801	TRANSISTOR	2SA933S
Q802	TRANSISTOR	KRC103M
Q851-Q854	TRANSISTOR	2SC1740S
Q855	TRANSISTOR	2SA933S
D801	DIODE	1SS252
D802	DIODE	1SS252
D851-D853	DIODE	1SS252

CAPACITORS

C1853	ELECT. CAPACITOR	CEANP4R7M50
C801	CERAMIC CAPACITOR	CKCYF103Z50
C851-C853	ELECT. CAPACITOR	CEAS4R7M50
C854, C856	ELECT. CAPACITOR	CEAS471M6R3
C857, C858	ELECT. CAPACITOR	CEAS470M25
C860	ELECT. CAPACITOR	CEAS470M25
C863	CERAMIC CAPACITOR	CKCYB102K50
C864	ELECT. CAPACITOR	CEAS4R7M50

Mark	No.	Description	Parts No.
RESISTORS			
	R860, R861	CARBON FILM RESISTOR	RD1/4PM331J
	Other Resistors	CARBON FILM RESISTOR	RD1/4PU□□□J
OTHERS			
		PIN JACK(2P)	AKB7016
		3P RCA PINJACK	AKB7018
	JA803,JA807	JACK	RKN1004
	CN802	CONNECTOR(7P)	KPE7
	CN804	CONNECTOR(4P)	KPE4

M PRIMARY ASSY

SEMICONDUCTORS

IC51	REGULATOR IC	NJM78M56FA
Q51	TRANSISTOR	KRC101M
D51	DIODE	S5688G
D53	ZENER DIODE	MTZJ5.1A
D54,D55	DIODE	1SS252

TRANSFORMERS

⚠	T51	POWER TRANSFORMER	ATT7018

SWITCHS AND RELAYS

RY51	RELAY	ASR1044

CAPACITORS

C51	CERAMIC CAPACITOR	CGCYX103M25
C52	ELECT. CAPACITOR	CEAS471M16
C53	ELECT. CAPACITOR	CEAS470M16
C54,C55	CKA (10000pF/AC250V)	ACG7020

RESISTORS

R54	CARBON FILM RESISTOR	RD1/2PM270J
R55	RESISTOR(2.2MΩ, 1/2W)	ACN-208
Other Resistors	CARBON FILM RESISTOR	RD1/4PU□□□J

OTHERS

	SOCKET(1P)	AKP1060
	GROUND PLATE	VNF-091
CN51	CONNECTOR(4P)	KPE4
H51,H52	FUSE CLIP	AKR1004

I VOLUME ASSY

SEMICONDUCTORS

IC701-IC703	IC	UPC4570C
Q701	TRANSISTOR	KRC103M
Q702	TRANSISTOR	KRA103M
Q703,Q704	N-FET	2SK246
Q705,Q706	TRANSISTOR	2SA1115
Q707,Q708	TRANSISTOR	2SC2603
D701,D703	DIODE	1SS252
D705	DIODE	1SS252

CAPASITORS

C701,C702	ELECT. CAPACITOR	CEAS4R7M50
C703,C704	AXIAL CAPACITOR	CCPUSL560J50
C705-C708	ELECT. CAPACITOR	CEAS4R7M50
C709,C710	CERAMIC CAPACITOR	CKPUYB151K50

Mark	No.	Description	Parts No.
	C711,C712	ELECT. CAPACITOR	CEAS4R7M50
	C714	ELECT. CAPACITOR	CEAS4R7M50
	C716	AXIAL CAPACITOR	CKPUYB101K50
	C718	ELECT. CAPACITOR	CEAS4R7M50
	C719	ELECT. CAPACITOR	CEANP100M50
	C720,C721	CERAMIC CAPACITOR	CCCSL271J50
	C722	ELECT. CAPACITOR	CEAS220M50
	C723-C728	CERAMIC CAPACITOR	CGCYX104M25
	C729,C730	AUDIO FILM CAPACITOR	CFTXA473J50
RESISTORS			
	VR701	VARIABLE RESISTOR (100Ω-A5x6)	ACX7028
	Other Resistors	CARBON FILM RESISTOR	RD1/4PU□□□J
OTHERS			
		CABLE HOLDER(15P)	51063-1505
	CN702	6P SOCKET	KP200TA6L
	CN703	CONNECTOR(9P)	KPE9

H PRO LOGIC ASSY

SEMICONDUCTORS

IC3001	DOLBY PROLOGIC IC	LV1030
IC3002	LOGIC IC	TC4052BP
IC3003	DUAL ATT/BAL IC	M51132L
IC3004	OP-AMP IC	NJM4558D-D
IC3006-IC3008	OP-AMP IC	NJM4558D-D
IC3009	DSP IC	M65849FP
IC3010	OP-AMP IC	NJM4558D-D
IC3012	REGULATOR IC	NJM78M09FA
Q3001	TRANSISTOR	2SD468
Q3003,Q3004	N-FET	2SK246
Q3005	TRANSISTOR	KRC103M
Q3006	TRANSISTOR	KRA103M
Q3007	TRANSISTOR	KRC103M
Q3008	TRANSISTOR	KRA103M
Q3009	N-FET	2SK246
D3001,D3002	DIODE	1SS252
D3005,D3006	LED(RED)	BR3371XJ30A
D3007,D3008	DIODE	1SS252
D3009	ZENER DIODE	MTZJ5.1C
D3010	ZENER DIODE	MTZJ12C
D3011	DIODE	1SS252

CAPACITORS

C3001,C3002	ELECT. CAPACITOR	CEAS1R0M50
C3003	ELECT. CAPACITOR	CEAS221M10
C3004-C3007	ELECT. CAPACITOR	CEAS100M50
C3008	ELECT. CAPACITOR	CEAS2R2M50
C3009	ELECT. CAPACITOR	CEASR33M50
C3010,C3016	ELECT. CAPACITOR	CEAS221M10
C3011	AUDIO FILM CAPACITOR	CFTXA823J50
C3012	PLASTIC FILM CAPACITOR	CQMA332J50
C3013	AUDIO FILM CAPACITOR	CFTXA823J50
C3014	ELECT. CAPACITOR	CEASR47M50
C3015	PLASTIC FILM CAPACITOR	CQMA473J50
C3017	AUDIO FILM CAPACITOR	CFTXA474J50
C3018	ELECT. CAPACITOR	CEAS470M10
C3019	ELECT. CAPACITOR	CEAS1R0M50
C3020	ELECT. CAPACITOR	CEAS221M16
C3021-C3024	ELECT. CAPACITOR	CEAS100M50
C3025,C3027	ELECT. CAPACITOR	CEASR47M50
C3026,C3028	ELECT. CAPACITOR	CEANL4R7M50
C3029	AUDIO FILM CAPACITOR	CFTXA154J50
C3030	ELECT. CAPACITOR	CEANL3R3M50
C3031,C3032	AUDIO FILM CAPACITOR	CFTXA154J50
C3033	ELECT. CAPACITOR	CEANL3R3M50
C3035	ELECT. CAPACITOR	CEANL4R7M50
C3036	ELECT. CAPACITOR	CEASR47M50
C3037	ELECT. CAPACITOR	CEANL4R7M50
C3038	ELECT. CAPACITOR	CEASR47M50
C3039-C3041	ELECT. CAPACITOR	CEAS1R0M50
C3042	ELECT. CAPACITOR	CEAS2R2M50
C3043	CERAMIC CAPACITOR	CKCYB471K50
C3044	ELECT. CAPACITOR	CEAS2R2M50
C3045	ELECT. CAPACITOR	CEAS2R2M50
C3046	AUDIO FILM CAPACITOR	CFTXA683J50
C3047	PLASTIC FILM CAPACITOR	CQMA222J50
C3048	AUDIO FILM CAPACITOR	CFTXA103J50
C3049	AUDIO FILM CAPACITOR	CFTXA683J50
C3050,C3051	AUDIO FILM CAPACITOR	CFTXA104J50
C3052	AUDIO FILM CAPACITOR	CFTXA683J50
C3053	PLASTIC FILM CAPACITOR	CQMA222J50
C3054	AUDIO FILM CAPACITOR	CFTXA103J50
C3055	ELECT. CAPACITOR	CEANP1R0M50
C3056	ELECT. CAPACITOR	CEAS470M10
C3057	CERAMIC CAPACITOR	CGCYX104M25
C3058,C3059	ELECT. CAPACITOR	CEAS220M25
C3060-C3062	ELECT. CAPACITOR	CEAS4R7M50
C3063	ELECT. CAPACITOR	CEAS470M16
C3064	ELECT. CAPACITOR	CEAS220M25
C3065,C3066	ELECT. CAPACITOR	CEAS4R7M50
C3067	ELECT. CAPACITOR	CEAS470M25
C3068-C3071	ELECT. CAPACITOR	CEAS470M16
C3072,C3073	ELECT. CAPACITOR	CEAS4R7M50
C3074	ELECT. CAPACITOR	CEANL4R7M50
C3075,C3076	ELECT. CAPACITOR	CEAS100M50
C3077	CERAMIC CAPACITOR	CKCYB471K50
C3079,C3080	ELECT. CAPACITOR	CEAS4R7M50
C3081-C3084	CERAMIC CAPACITOR	CGCYX473M25
C3085	CERAMIC CAPACITOR	CGCYX104M25
C3086	CERAMIC CAPACITOR	CCCSL101J50

RESISTORS

R3020	METALFILM RESISTOR	RN1/4PC5102F
R3021,R3022	METALFILM RESISTOR	RN1/4PC1003F
R3023	METALFILM RESISTOR	RN1/4PC3902F
R3024	METALFILM RESISTOR	RN1/4PC5102F
R3025,R3026	METALFILM RESISTOR	RN1/4PC1003F

Mark	No.	Description	Parts No.
	R3027	METALFILM RESISTOR	RN1/4PC3902F
	R3071	METAL OXIDE RESISTOR	RS1LMF270J
	R3073	CARBON FILM RESISTOR	RD1/2PM820J
	Other Resistors	CARBON FILM RESISTOR	RD1/4PU□□□J

OTHERS

CN3001	15P SOCKET	KP200TA15L
CN3002	5P SOCKET	KP200TA5L
CN3003	CONNECTOR(10P)	KPE10
X3001	CERAMIC RESONATOR (8.00MHz)	DSS1053
X3002	CERAMIC RESONATOR (4.00MHz)	ASS7014

N FM/AM TUNER MODULE

SEMICONDUCTORS

IC6201	AM/FM +MPX IC	LA1836M
IC6202	PLL IC	LM7001J
Q6101	DUALGATE-FET (CHIP)	3SK194
Q6102	TRANSISTOR	2SC2223
Q6103	TRANSISTOR	2SC2714
Q6104	MOS-FET	2SK302
Q6201	NCH-FET(SMD)	2SK208
Q6202	TRANSISTOR	2SC2712
Q6203	TRANSISTOR	2SC2235
Q6204	TRANSISTOR	XDA124EK
Q6214	TRANSISTOR	2SC2714
Q6217	TRANSISTOR	XDC124EK
D6101,D6102	VARI-CAP	1T33

COILS AND FILTERS

L6101	COIL	ATC1020
L6102	COIL	ATC1021
L6103	CHIP COIL	ATH1043
L6104	FM COIL	ATC1003
L6202,L6203	CHIP COIL	LCTA2R2J3225
L6207	FM DETECTION COIL	ATE1013
L6208	CHIP COIL	LCTA2R2J3225
F6101	CERAMIC FILTER	ATF-155
F6202	AM CERAMIC FILTER (450KHz)	ATF1156
F6203,F6204	CERAMIC FILTER	ATF-119

TRANSFORMERS

T6101	FM IF TRANS.	ATE-063

CAPACITORS

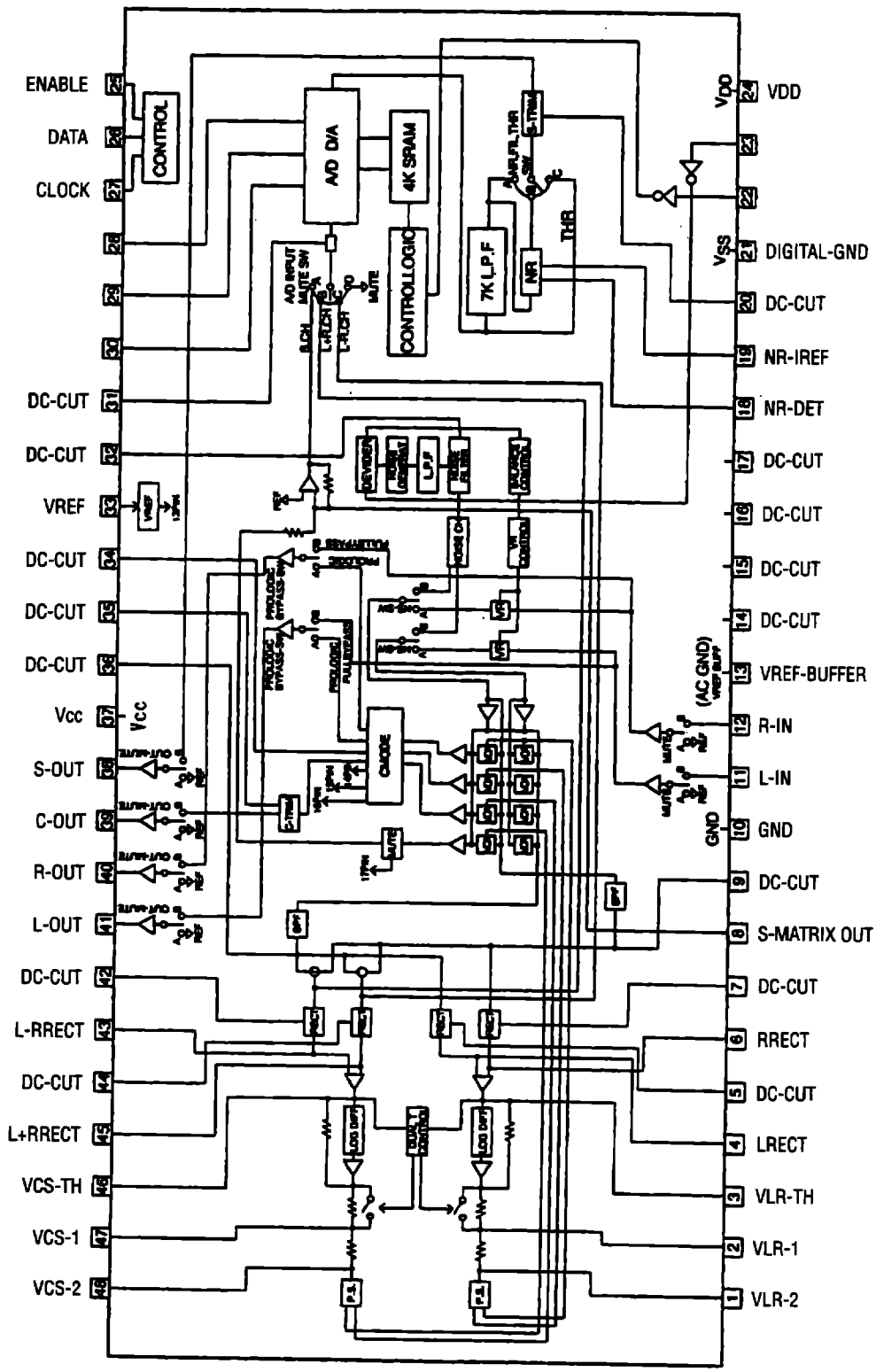
C6101	CHIP CAPACITOR	CCSQCH5R0C50
C6102	CERAMIC CAPACITOR	CKSQYB103K50
C6103	CHIP CAPACITOR	CKSQYB102K50
C6105	CHIP CAPACITOR	CCSQTH150J50
C6106	CHIP CAPACITOR	CKSQYB102K50
C6107	CHIP CAPACITOR	CCSCK1R0C50
C6108	CHIP CAPACITOR	CCSQCH101J50
C6109	CERAMIC CAPACITOR	CKSQYB103K50
C6110	CHIP CAPACITOR	CCSQCK2R0C50
C6111	CHIP CERAMIC C.	CCSQCH150J50
C6112	CHIP CAPACITOR	CKSQYB102K50
C6113	CHIP CAPACITOR	CCSQRH180J50
C6114	CHIP CAPACITOR	CCSQRH080D50
C6115	CHIP CAPACITOR	CCSQCH330J50
C6116	CHIP CERAMIC C.	CCSQCH150J50
C6117	CERAMIC CAPACITOR	CKSQYB103K50
C6202	CAPACITOR (CERAMIC) (1μF/16V)	ACG1051
C6203	CHIP CAPACITOR	CCSQCH101J50
C6204	CHIP CAPACITOR	CKSQYB102K50
C6208	CHIP CERAMIC C.	CCSQCH150J50
C6209	CERAMIC CAPACITOR	CKSQYB473K50
C6210	CERAMIC CAPACITOR	CKSQYB103K50
C6212	CHIP CAPACITOR	CKSQYF103Z50
C6213	CHIP CAPACITOR	CKSQYB223K50
C6214	AUDIO FILM CAPACITOR	CFTXA224J50
C6215	AUDIO FILM CAPACITOR	CFTXA103J50
C6216,C6217	ELECT. CAPACITOR	CEAS330M16
C6218	CHIP CAPACITOR	CKSQYF103Z50
C6219	ELECT. CAPACITOR	CEAS470M10
C6220	CHIP CAPACITOR	CKSQYF223Z50
C6221,C6222	CHIP CERAMIC C.	CCSQCH150J50
C6223	CHIP CAPACITOR	CKSYF103Z50
C6224	ELECT. CAPACITOR	CEAS100M50
C6225	CERAMIC CAPACITOR	CKSQYF473Z50
C6226	CHIP CAPACITOR	CKSQYF223Z50
C6227	ELECT. CAPACITOR	CEAS101M10
C6228	CERAMIC CAPACITOR	CKSQYB472K50
C6229	CERAMIC CHIP C.	CCSCH821J50
C6230	CHIP CAPACITOR	CKSQYB393K50
C6231	ELECT. CAPACITOR	CEAS3R3M50
C6232	CERAMIC CAPACITOR	CKSYB393K50
C6233	ELECT. CAPACITOR	CEAS3R3M50
C6234	CAPACITOR (CERAMIC) (1μF/16V)	ACG1051
C6235	CERAMIC CAPACITOR	CKSQYF224Z25
C6236	CAPACITOR (CERAMIC) (1μF/16V)	ACG1051
C6237	CERAMIC CAPACITOR	CKSQYB473K50
C6238	ELECT. CAPACITOR	CEJA100M16
C6239	CHIP CAPACITOR	CKSQYF223Z50
C6241	CERAMIC CAPACITOR	CKSQYF473Z50
C6242	CHIP CAPACITOR	CKSQYF223Z50
C6243-C6245	ELECT. CAPACITOR	CEAS470M16
C6246	ELECT. CAPACITOR	CEAS100M50
C6249,C6250	ELECT. CAPACITOR	CEJA4R7M35
C6251	CHIP CAPACITOR	CKSYB472K50
C6252	CERAMIC CAPACITOR	CKSQYB472K50
C6255	CHIP CAPACITOR	CKSQYF223Z50
C6261	ELECT. CAPACITOR	CEAS1R0M50
C6262	ELECT. CAPACITOR	CEAS100M50
C6263	CHIP CAPACITOR	CKSYF473Z50
C6264	CERAMIC CAPACITOR	CKSQYB103K50
C6265	CERAMIC CAPACITOR	CKSQYB473K50
C6266	CERAMIC CAPACITOR	CKSQYF473Z50
C6267	CERAMIC CAPACITOR	CKSQYB473K50
C6268	CHIP CAPACITOR	CCSQCH101J50

Pin No.	Port Function	Logic	Function
34	DC.DETECT input	Lo active	Input of the protection circuit as DC DETECTOR. When Lo is input, this port opens relays other than the AC relay. "POWEROFF" flashes on the 8th digits of the FL display.
35, 36	VIDEO IC CONT. output	H/L Depending on LA7952	2-bit parallel control for the video function IC. Refer to SW specification.
38	RESET	Lo active	Same specification as VSX-605S
39 40	Oscillation input Oscillation output		7.7MHz (ASS1055)
46	VIDEO signal MUTE output	Lo active	Output for muting MOTOR OUT Becomes H when in the audio FUNCTION.
30	RDS decoder VDD ON/ OFF and FM/AM selection	H active	Turns ON/OFF the RDS decoder Tr switch for VDD. Lo when in AM and Hi in FM of the function tuner. Lo when the power is OFF. H at other times even when functions other than TUNER are set.
58	TC9299 ST output	Depending on TC9299	Serial control STROBE for the electric volume (for REAR, CENT., SUB WF) TC9299 (x2). 3 lines of 58, 61, and 62 (AC-3 model only).
59	TC9162 ST output	Depending on TC9162	Serial control STROBE for the function IC TC9162. 3 lines of 59, 61, and 62 (AC-3 model only).
60	TC9273 ST output	Depending on TC9273	Serial control STROBE for the function IC TC9273. 3 lines of 60, 61, and 62.
61	SYS.DATA output	Depending on TC9273, TC9162, TC9299, and LM7001	Controls PLL IC, AUDIO FUNC. IC, E.VOL. IC with a serial control data. (TC9162 and TC9299 are only for AC-3 model)
62	SYS.CK output	Depending on TC9273, TC9162, TC9299, and LM7001	Controls PLL IC, AUDIO FUNC. IC, E.VOL. IC with a serial control clock. (TC9162 and TC9299 are only for AC-3 model)
63	PLL CE. output	Depending on LM7001	CHIP ENABLE for the tuner PLL IC serial control. 3 lines of 61, 62, and 63
64	T.MUTE ON/OFF output	H active	Muting control for the tuner output. Muting timing is the same as the conventional model. Set to H in functions other than TUNER.
66	TUNERT forcible monaural ON/OFF output	H active	Set to H when the forcible monaural is ON in the MPX mode of the TUNER function.
51	HP.RY ON/OFF output	H active	Turns ON/OFF the Tr switch for the headphone RY.
52 50 49	SP-A RY SP-B RY FRONT RY ON/OFF output	H active	Turns ON/OFF the Tr switch for the front SP to be connected in series. Logic is as follows. 52 50 49 SP-A ON H Lo H SP-B ON Lo H H A,B ON Lo Lo H A,B OFF Hi Hi Lo

Pin No.	Port Function	Logic	Function
48	R.C. RY ON/OFF output	H active	Turns ON/OFF the Tr switch for the rear, center SP RY.
48-52	Protect operation		RY for protection is not provided for this model. The following functions are performed by setting ports 58 to 62 to Lo. Muting when power ON Instantaneous shut-off when power OFF AMP DC protect AMP over loading protect
47	AC RY ON/OFF output	H active	Turns ON/OFF the Tr switch for AC power RY. Lo when stand by, H when power ON.
65	A.MUTE output	Lo active	Controls the audio system muting. Muting timing is the same as the conventional model.
67	LOUDNESS ON/OFF output	H active	Turns ON/OFF the Tr switch for LOUDNESS. "LOUDNESS" lights up on the FL display when ON. Forcibly turned OFF when DIRECT ON.
69-90 (excluding 89)	FL drive segment output Also serves as 72 to 81 KEY SCAN		FL driver Main unit KEY SCAN output 81 is dedicated for selecting a destination.
1,2 & 91-100	FL drive grid output		FL driver (91 is for AC-3 model only)
26	DIRECT ON/OFF output	H active	/HY model only. Turns ON/OFF the DIRECT Tr switch. When DIRECT ON (port High), character "DIRECT" lights up on the FL display.
22 24	TC4052 CONTROL output	H/L	Control output for the IC TC4052 for selecting FRONT signal.
23	M51132 ON/OFF output	Lo active	Control output for the IC M51132L for 5-D THEATER. When ON (port Low), character "5-D THEATER" lights up on the FL display.
21	M65846 ST output	Depending on M65846	STROBE for the serial control of DSP IC M65846. Three lines of 19, 20, and 21.
20	SURR.CK output	Depending on LV1030 and M65846	CLOCK for the serial control of PRO-LOGIC IC and DSP IC.
27	PRO-LOGIC CE output	Depending on LV1030	CHIP ENABLE for the serial control of PRO-LOGIC IC LV1030. Three lines of 19, 20, and 27.
19	SURR.DT output	Depending on LV1030 and M65846	DATA for the serial control of PRO-LOGIC IC and DSP IC.
25	5D-CONT	Low active	Turns ON when the 5D-THEATER surround is effective.

■ LV1030 (PRO LOGIC ASSY : IC3001)

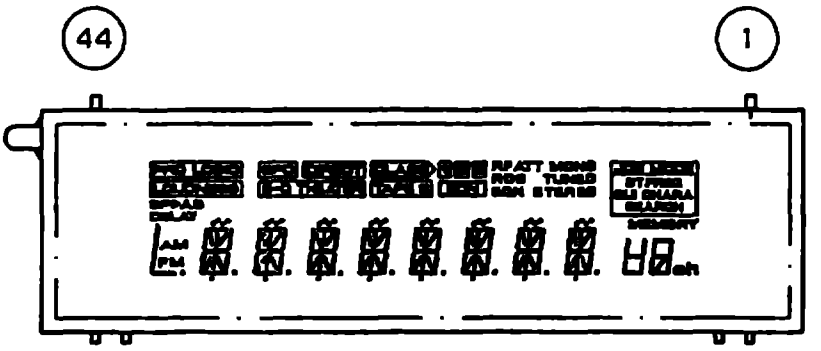
- **Dolby PRO LOGIC**
- **Block Diagram**



7.1.2 DISPLAY

■ AAV7035 (V901 : FL/U-COM ASSY)

● **FL Tube**

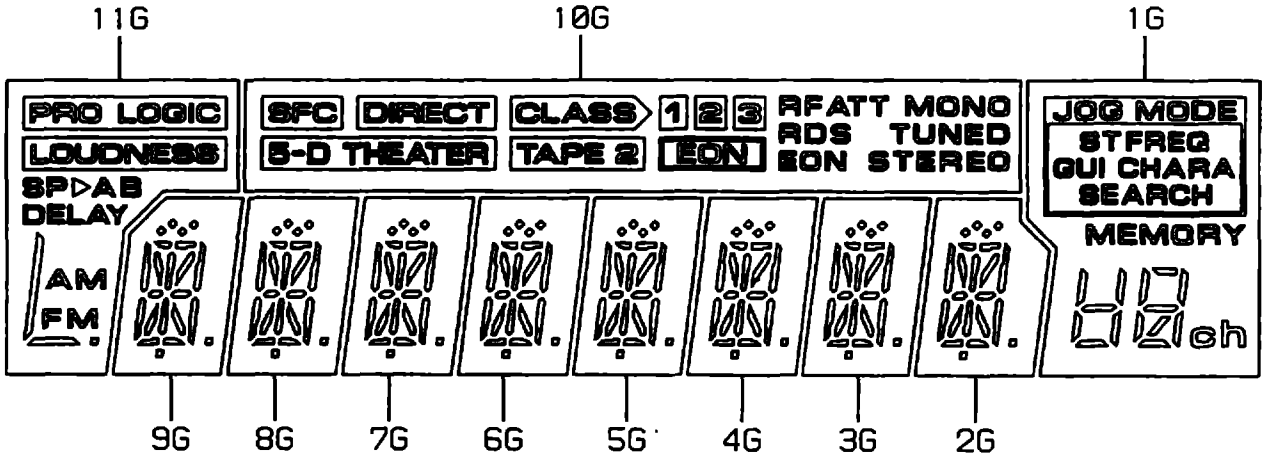


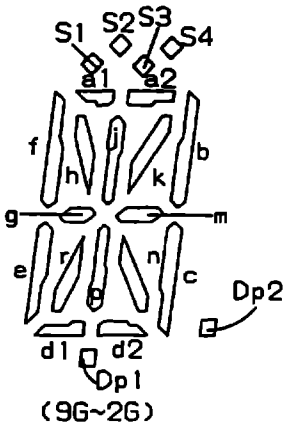
● **Pin Assignment**

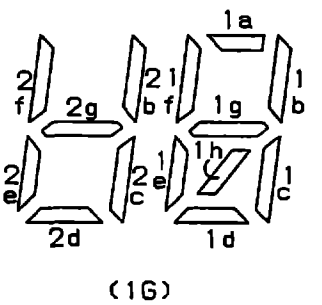
PIN NO.	44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
CONNECTION	F2 F2 NP NP NX NX NX P2 P2 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1 N1 N1 N1 N1 N1 N1 N1 N1 N1 N1 N1 N1 N1 N1 N1 N1 N1 F1 F1

NOTE 1) F1,F2 --- Filament
2) NP ------ No pin
3) NX ------ No extend pin
4) DL ------ Datum Line
5) 1G~11G --- Grid

● **Grid Assignment**



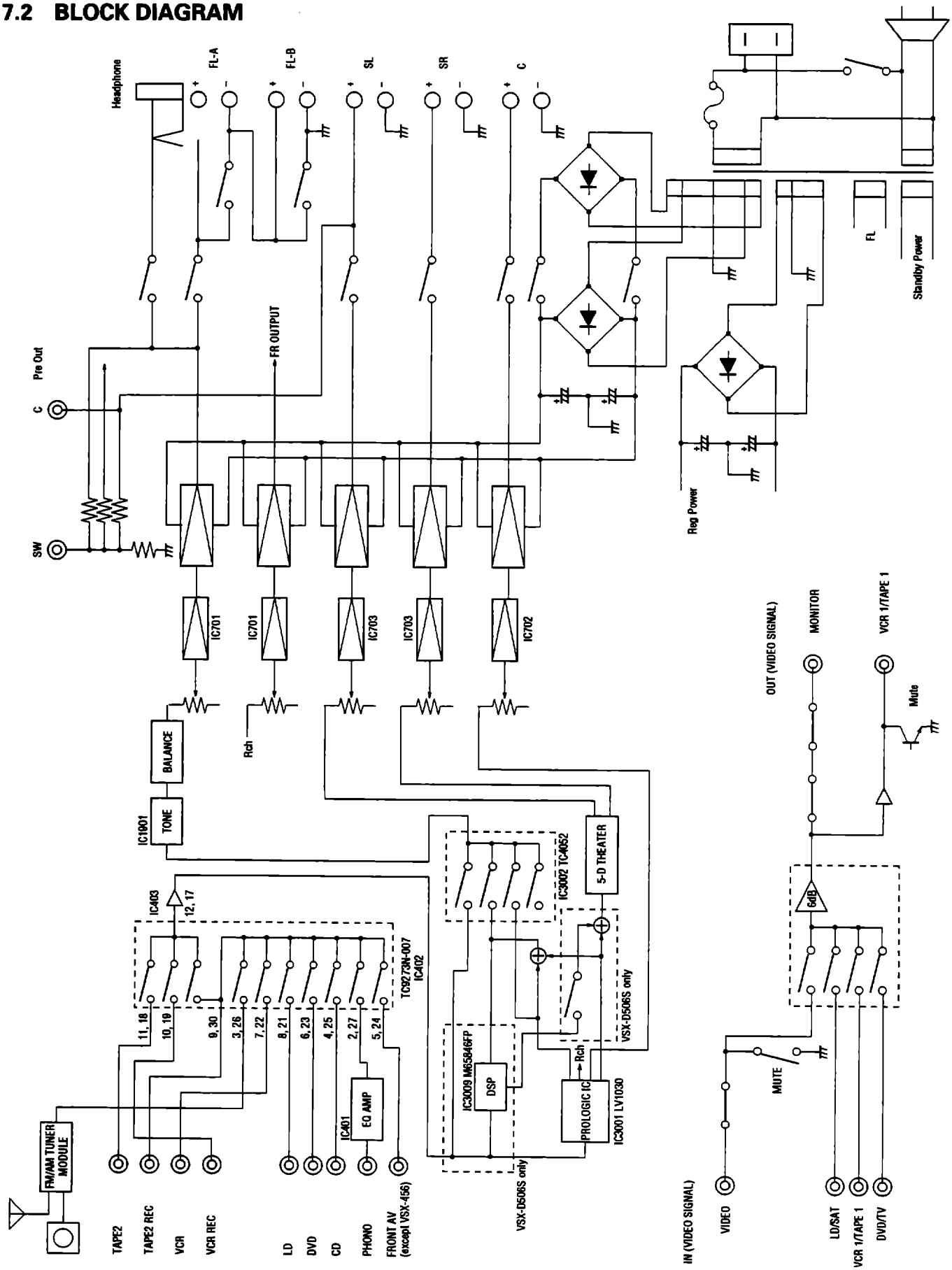




● **Anode Connection**

	11G	10G	9G~2G	1G
P1		MONO	a1	2b,2c
P2	▫	TUNED	a2	2g
P3	FM	STEREO	h	2d
P4	AM	RFATT	j	2e
P5	DELAY	RDS	k	2f
P6	B	EON	b	1a
P7	A	3	f	1b
P8	SP▷	2	m	1f
P9	LOUDNESS	1	g	1g
P10	PRO LOGIC	EON	c	1c
P11	-	CLASS	e	1h
P12	-	TAPE 2	r	1e
P13	-	DIRECT	p	1d
P14	-	SFC	n	ch
P15	-	5-D THEATER	d1	MEMORY
P16	-	-	d2	SEARCH
P17	-	-	Dp1	CHARA
P18	-	-	S1,S3	GUI
P19	-	-	S4	FREQ
P20	-	-	S2	ST
P21	-	-	Dp2	JOG MODE

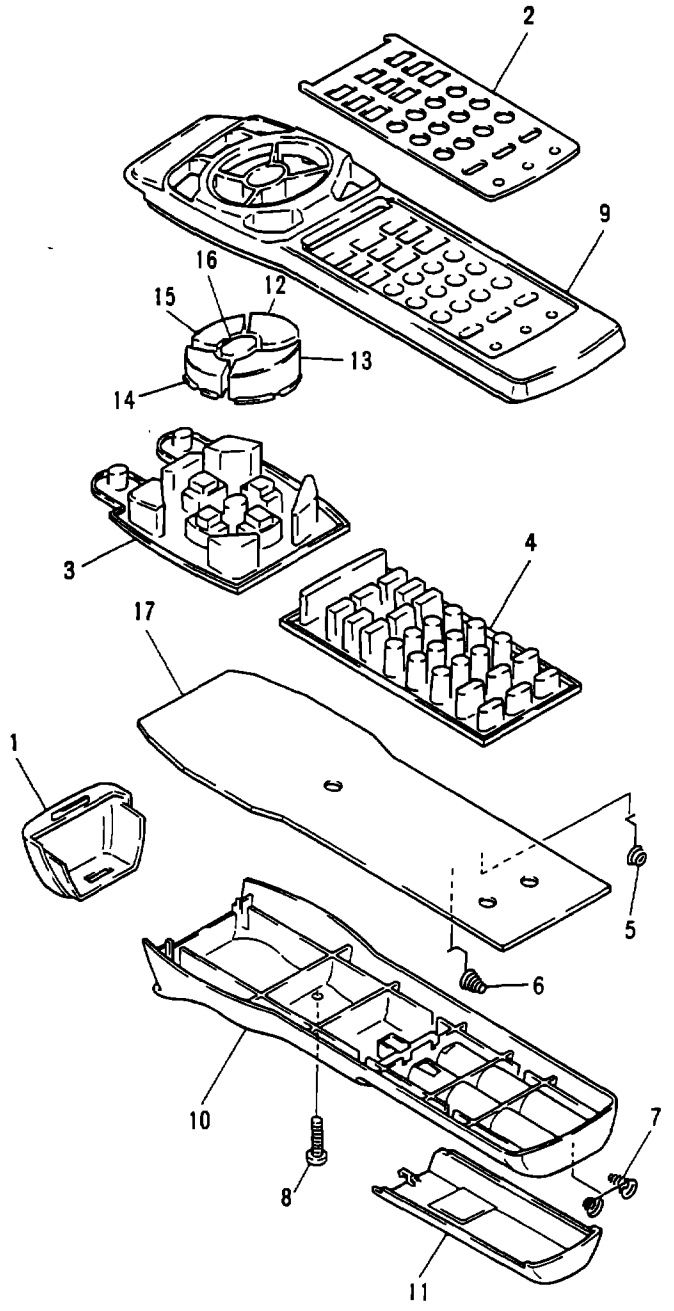
7.2 BLOCK DIAGRAM



7.3 REMOTE CONTROL UNIT [CU-VSX115 (AXD7124)]

7.3.1 EXPLODED VIEWS AND PARTS LIST

NOTES: • *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
• *The ⚠ mark found on some component parts indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use parts of identical designation.*



■ **Parts List**

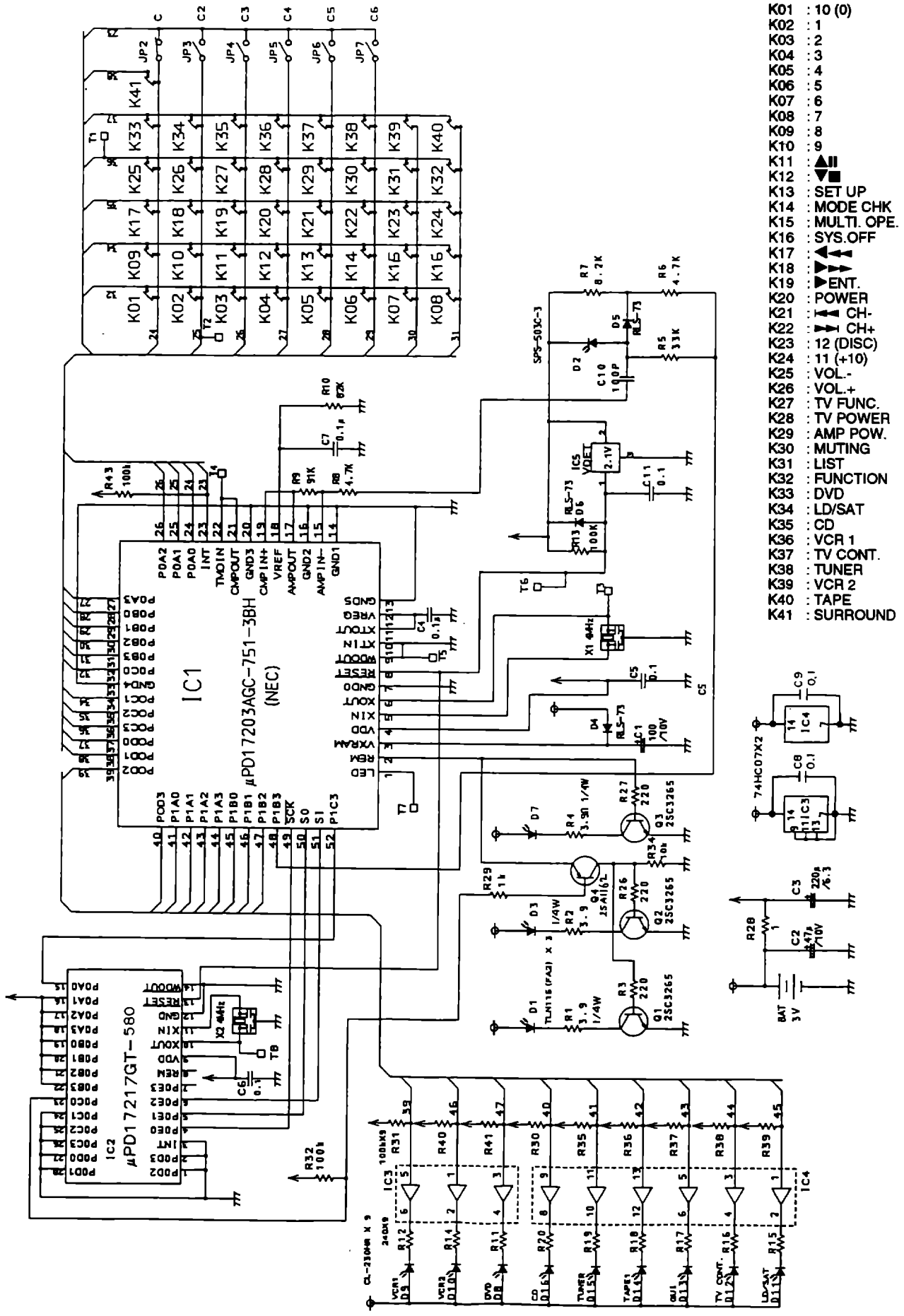
Mark	No.	Description	Part No.
	1	Filter	AZA7152
	2	Name plate	AZA7242
	3	Rubber sheet (A)	AZA7236
	4	Rubber sheet (B)	AZA7243
	5	Spring (+)	AZB7049
	6	Spring (–)	AZB7050
	7	Spring	AZB7051
	8	Screw	AZB7052
	9	Remo-con case (A)	AZN7672
	10	Remo-con case (B)	AZN7326
	11	Battery cover	AZN7327
	12	Main key (FF)	AZN7666
	13	Main key (STOP)	AZN7329
	14	Main key (REV)	AZN7665
	15	Main key (PAUSE)	AZN7331
	16	Main key (PLAY)	AZN7664
NSP	17	PCB	AZW7243

7.3.2 SCHEMATIC AND PCB DIAGRAMS

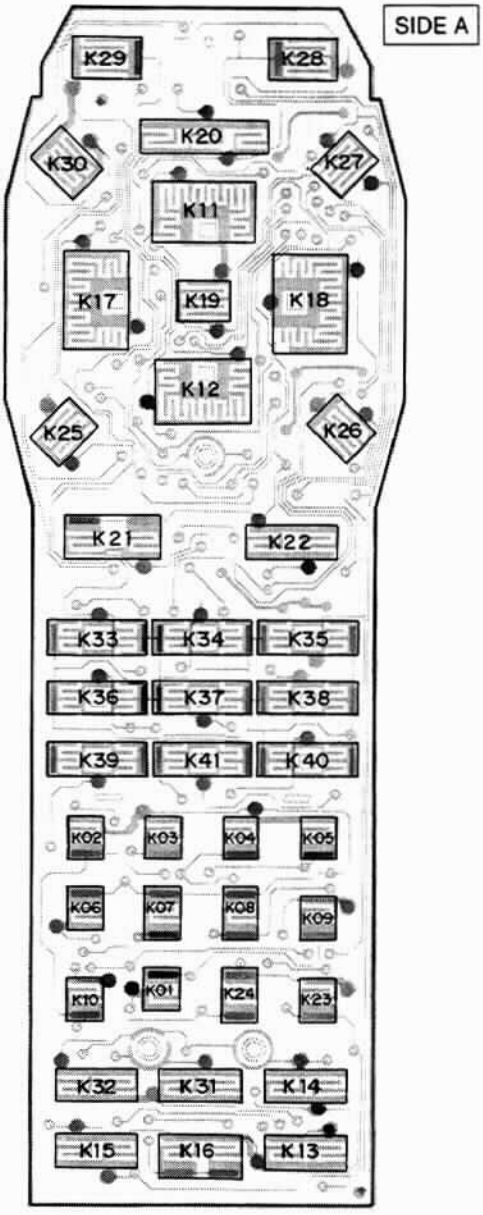
NOTE: When ordering service parts, be sure to refer to "PARTS LIST of EXPLODED VIEWS" or "PCB PARTS LIST".

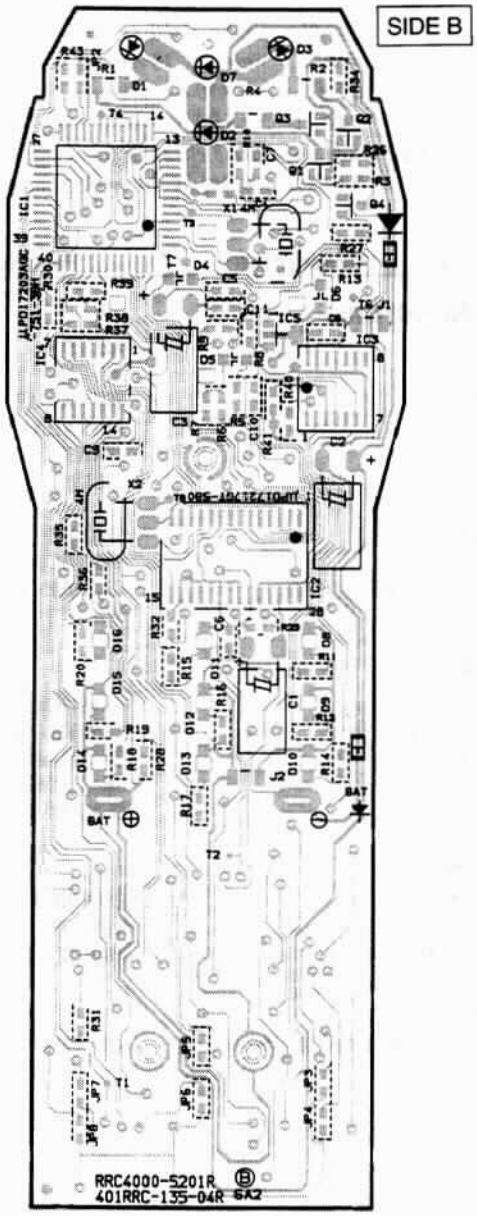
■SCHEMATIC DIAGRAM

■ SWITCHES
K01 : 10 (0)
K02 : 1
K03 : 2
K04 : 3
K05 : 4
K06 : 5
K07 : 6
K08 : 7
K09 : 8
K10 : 9
K11 : ▲II
K12 : ▼■
K13 : SET UP
K14 : MODE CHK
K15 : MULTI. OPE.
K16 : SYS.OFF
K17 : ◀◀
K18 : ▶▶
K19 : ▶ENT.
K20 : POWER
K21 : I◀◀ CH-
K22 : ▶▶I CH+
K23 : 12 (DISC)
K24 : 11 (+10)
K25 : VOL.-
K26 : VOL.+
K27 : TV FUNC.
K28 : TV POWER
K29 : AMP POW.
K30 : MUTING
K31 : LIST
K32 : FUNCTION
K33 : DVD
K34 : LD/SAT
K35 : CD
K36 : VCR 1
K37 : TV CONT.
K38 : TUNER
K39 : VCR 2
K40 : TAPE
K41 : SURROUND



■PCB CONNECTION DIAGRAM





7.3.3 PCB PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47K ohm (tolerance is shown by J=5%, and K=10%).

560 Ω → 56 × 10¹ → 561 ..... RD1/4PU 5 6 1 J
47 kΩ → 47 × 10³ → 473 ..... RD1/4PU 4 7 3 J
0.5 Ω → R50 ..... RN2H R 5 0 K
1 Ω → 1R0 ..... RS1P 1 R 0 K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

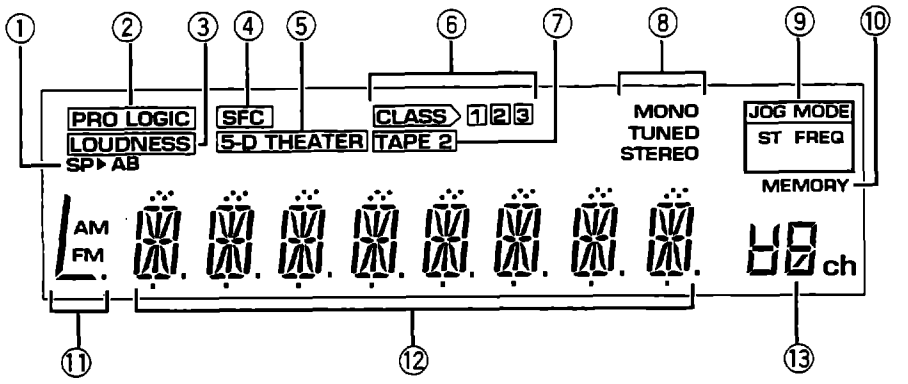
5.62 kΩ → 562 × 10¹ → 5621 ..... RN1/4PC 5 6 2 1 F

Mark	No.	Description	Part No.
SEMICONDUCTORS			
	IC1		AZC7275
	IC2		AZC7274
	IC3, IC4		TC74HC07AF
	IC5		RH5VA21AA
	Q4-Q6		2SA1037K
	Q1-Q3		2SC3265
	D1, D3, D7		SE1003-C
	D2		SPS-503C-3
	D8-D20	LED	CL-230HR-CD
	D4 - D6		RLS-73
CAPACITORS			
	C2		CEAS470M10
	C4-C7, C11		CKSQYB104K25
	C3		CEAS221M6R3
	C1		CEAS101M6R3
	C8 -C10		CCSQCH101J50
RESISTORS			
	R2001, R2002		RS1/8S0R0J
	R1, R2, R4		RS1/8S3R9J
	Other Resistors		RS1/10S□□□J
OTHERS			
	X1, X2	RESONATOR (4MHz)	KBR-4.0M

8. PANEL FACILITIES AND SPECIFICATIONS

■MODEL VSX-D506S and VSX-456

Display



① **Speakers A, B indicator**
The indicator of the speaker system (A, B) selected will light.

② **PRO LOGIC indicator**
Lights when Dolby Pro Logic is selected.

③ **LOUDNESS indicator**
Lights when LOUDNESS is ON.

④ **SFC indicator**
Lights when STUDIO or ARENA has been selected with the SFC MODE button.

⑤ **5-D THEATER indicator**
Lights when 5-D THEATER is ON.

⑥ **CLASS 1, 2, 3 indicators**
The indicator of the class number selected lights.

⑦ **TAPE 2 indicator**
Lights when TAPE 2 MONITOR is ON.

⑧ **TUNER indicator**
MONO:
Lights when the monaural mode is set using the MPX MODE button.
TUNED:
Lights when broadcasts are being received.
STEREO:
Lights when stereo broadcasts are received during auto stereo mode.

⑨ **JOG MODE indicator**
ST:
Lights when the station mode is selected.
FREQ:
Lights when the frequency mode is selected.

⑩ **MEMORY indicator**
Lights when station memory mode is selected.

⑪ **AM/FM indicators**
The indicator of the band currently selected (AM/FM) lights.

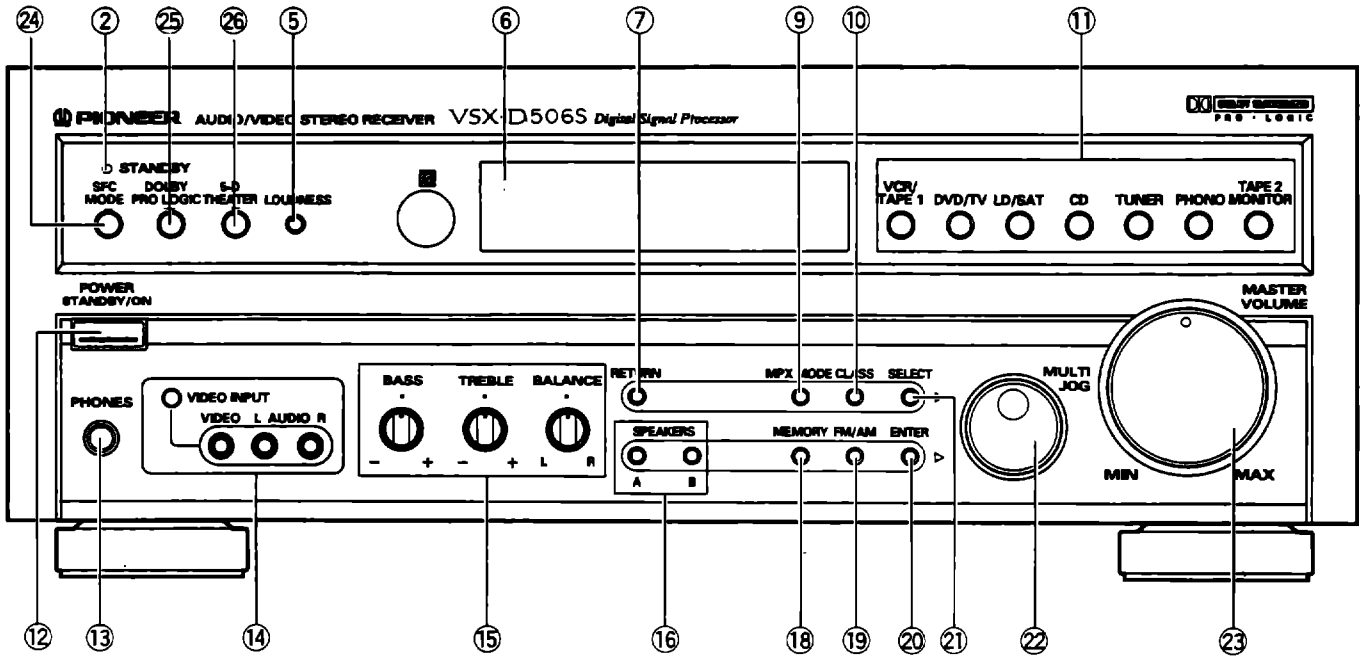
⑫ **CHARACTER display**

⑬ **STATION display**
Indicates the station number currently selected.

■MODEL VSX-D506S

* The size of characters shown in the figure may differ from that on the actual product.

Front panel



② **STANDBY indicator**

⑤ **LOUDNESS button**
Press this button when the volume is low to raise the low and high range levels so that the sound can be heard more easily.

⑥ **Display**

⑦ **RETURN button**

⑨ **MPX MODE button**
Use to switch the auto stereo/monaural mode for receiving FM broadcasts. When the received broadcast signal is weak, press this button to set the monaural mode.

⑩ **CLASS button**

⑪ **Function buttons**

⑫ **POWER STANDBY/ON button**

⑬ **PHONES jack (Headphone terminal)**

⑭ **VIDEO INPUT button/terminal**
Connect to a video camera, etc.

⑮ **TONE and BALANCE controls**
Use to adjust tone and volume balance.

⑯ **SPEAKERS A, B buttons**
ON/OFF switches for the A and B speaker systems.

⑱ **MEMORY button**

⑲ **FM/AM button**
Use to switch the FM/AM frequency band reception.

⑳ **ENTER button**

㉑ **SELECT button**
Use to switch the control of the MULTI JOG between station mode and frequency mode when operating the tuner.

㉒ **MULTI JOG**
Use to select the frequency and station number when operating the tuner.

㉓ **MASTER VOLUME**

㉔ **SFC MODE button**

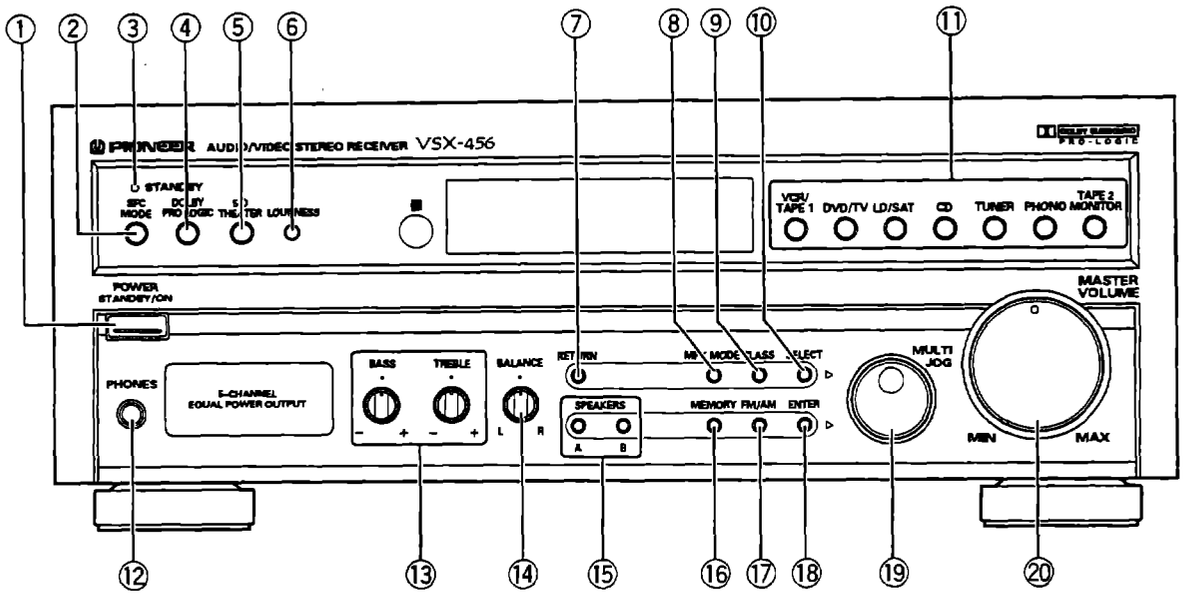
㉕ **DOLBY PRO LOGIC button**
Switches DOLBY PRO LOGIC SURROUND on and off.

㉖ **5-D THEATER button**

■MODEL VSX-456

Front Panel

- The size of characters in the figure may different from that on the actual product.



① **POWER STANDBY/ON button**

② **SFC MODE button**

③ **STANDBY indicator**

④ **DOLBY PRO-LOGIC button**

⑤ **5-D THEATER button**

⑥ **LOUDNESS button**
Press this button when the volume is low to raise the low and high range levels so that the sound can be heard more easily.

⑦ **RETURN button**

⑧ **MPX MODE button**
Use to switch the auto stereo/monaural mode for receiving FM broadcasts.
When the received broadcast signal is weak, press this button to set the monaural mode.

⑨ **CLASS button**

⑩ **SELECT button**
Use to switch the control of the MULTI JOG between station mode and frequency mode when operating the tuner.

⑪ **Function buttons**

⑫ **PHONES jack (Headphone terminal)**

⑬ **TONE control**
Use to adjust tone.

⑭ **BALANCE control**
Use to adjust volume balance.

⑮ **SPEAKERS A, B buttons**
ON/OFF switches for the A and B speaker systems.

⑯ **MEMORY button**

⑰ **FM/AM button**
Use to switch the FM/AM frequency band reception.

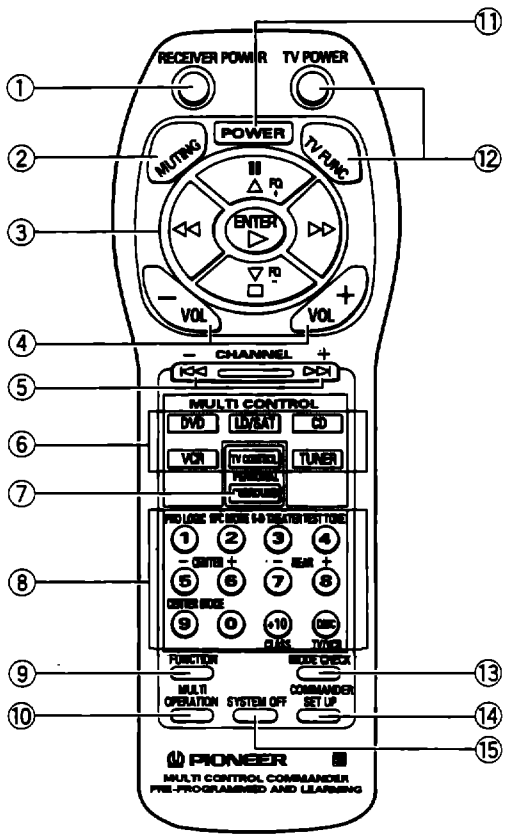
⑱ **ENTER button**

⑲ **MULTI JOG**
Use to select the frequency and station number when operating the tuner.

⑳ **MASTER VOLUME**

■MODEL VSX-D506S

Remote control unit



① **RECEIVER POWER button**

② **MUTING button**
Press to mute the volume.

③ **[When set to SURROUND (OPERATIONS)]**
△,▽,◁,▷ (Select/Adjust)buttons
[When set to other than SURROUND (OPERATIONS)]
II(Pause), □ (Stop), ◁◁(Rewind), ▷▷(Fast Forward), ▷ (Play) buttons

④ **VOL (–, +) buttons**

⑤ **[TV Operations]**
Selects the TV broadcast channel.
[CD, LD, DVD operations]
|◁◁, ▷▷| (Chapter/Track Search) buttons

⑥ **MULTI CONTROL function buttons**
Used to set and operate the MULTI CONTROL, and switch the function.
TV CONTROL: Press to operate TV.

⑦ **SURROUND/PERSONAL button**
[When setting MULTI operations]
Press when setting to the personal mode using multi operations.
[When setting to other than multi operation]
Press when performing surround operations and setting/changing setting modes.

⑧ **Number/surround setting buttons**
[When setting surround (operations)]
PRO LOGIC (VSX-D506S): Turns Dolby Pro Logic ON/OFF.
SFC MODE (VSX-D506S): Switches the surround effects.
5-D THEATER (VSX-D506S): When turned ON, the rear channel sound becomes stereo-like (deep and clear).
TEST TONE: When turned ON (while in surround mode), volume balance adjustment signals are output in order from the speakers and can be adjusted.
CENTER –, +: Adjusts the center level.
REAR –, +: Adjusts the rear level.
[Tuner Operations]
Number buttons: Use for setting the frequency value when the station call is selected or during direct access.
CLASS: Switches the CLASS number.
[VCR operations]
TV/VCR: Switches between TV/VCR.
[CD Operations]
DISC: Use to select the DISC number.

⑨ **FUNCTION button**
Switches the function.

⑩ **MULTI OPERATION button**
Use to set the multi operation.

⑪ **POWER button**
Turns ON/OFF the power of devices other than this unit.

⑫ **TV buttons**

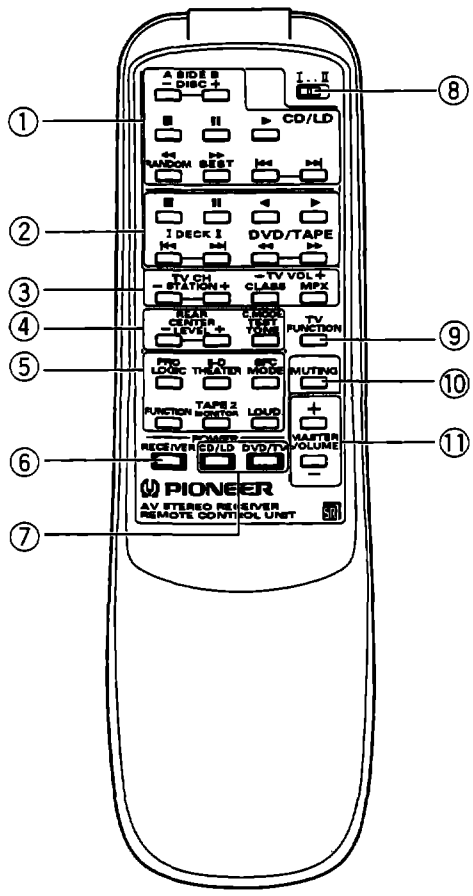
⑬ **MODE CHECK button**

⑭ **COMMANDER SET UP button**
Use to control and learn operations of other manufacturer's equipment, and set multi operation functions.

⑮ **SYSTEM OFF button**
Use to turn OFF the power of all equipment connected to the main unit.

■MODEL VSX-456

REMOTE CONTROL UNIT



① CD/LD buttons

(When the MODE switch is set to I.)
Sets CD.
DISC –/+, ■, II, ►, RANDOM, BEST, |◄◄, ►►|
(When the MODE switch is set to II.)
Sets LD.
SIDE A/B, ■, II, ►, ◄◄, ►►, |◄◄, ►►|

② DVD/TAPE buttons

(When the MODE switch is set to I.)
Sets DVD.
■, II, ►, |◄◄, ►►|, ◄◄, ►►
(When the MODE switch is set to II.)
Sets TAPE DECK.
■, II, ◄, ►, DECK I/II, ◄◄, ►►

③ TV/TUNER buttons

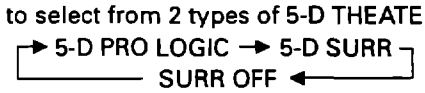
(When the MODE switch is set to I.)
Sets AM/FM tuner.
STATION –/+, CLASS, MPX
(When the MODE switch is set to II.)
Sets TV.
TV CH (channel) –/+, TV VOL (volume) –/+

④ SURROUND ADJUSTMENT buttons

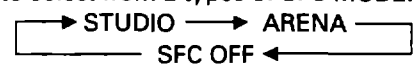
(When the MODE switch is set to I.)
CENTER LEVEL –/+
Adjusts the center level.
TEST TONE
When SFC MODE or DOLBY PRO LOGIC is ON, volume balance adjustment signals are output in order from each speaker and center/rear level can be adjusted.
(When the MODE switch is set to II.)
REAR LEVEL –/+
Adjusts the rear level.
C.MODE
Switches the center mode.

⑤ RECEIVER buttons

PRO LOGIC
Use to turn ON/OFF DOLBY PRO LOGIC surround.
5-D THEATER
Use to select from 2 types of 5-D THEATER.



SFC MODE
Use to select from 2 types of SFC MODE.



FUNCTION
Use to switch the function.
TAPE 2 MONITOR
Use to turn ON the TAPE 2 MONITOR.
LOUD. (LOUDNESS)
When turned ON in low volume setting, the low and high range sound levels increase, making the sounds clearer.

⑥ POWER (RECEIVER) button

Use to switch the RECEIVER power to ON or STANDBY.

⑦ POWER (CD/LD, DVD/TV) buttons

(When the MODE switch is set to I.)
Use to turn ON/OFF the CD, DVD power.
(When the MODE switch is set to II.)
Use to turn ON/OFF the LD, TV power.

⑧ MODE switch

Use to switch the remote control unit modes.

⑨ TV FUNCTION button

Use to switch the TV function.

⑩ MUTING button

Turns ON when the volume is muted.

⑪ MASTER VOLUME –/+ buttons

Use to adjust the volume.

■MODEL VSX-D506S

SPECIFICATIONS

Amplifier Section

Continuous average power output of 100 watts* per channel, min., at 8 ohms, from 20 Hz to 20,000 Hz with no more than 0.09 % total harmonic distortion (front).**

[Multi-voltage model only]
Continuous Power Output (DIN)
Front (1 kHz, T.H.D. 1 %, 8 Ω)
VSX-D506S ..... 110 W + 110 W
[U.S. and Canadian models only]
Continuous Power Output
Front ..... 100 W + 100 W (1 kHz, 0.8 %, 8 Ω)
Center ..... 100 W (1 kHz, 0.8 %, 8 Ω)
Rear ..... 100 W (1 kHz, 0.8 %, 8 Ω)

Input (Sensitivity/Impedance)
PHONO MM ..... 2.8 mV/47 kΩ
LD/SAT, CD, VCR/TAPE 1, TAPE 2
DVD/TV, VIDEO ..... 200 mV/47 kΩ
Phono Overload Level (T.H.D. 0.1 %, 1kHz)
PHONO MM ..... 100 mV
Frequency Response
PHONO MM ..... 20 Hz to 20,000 Hz ± 0.3 dB
LD/SAT, CD, VCR/TAPE 1, TAPE 2
DVD/TV, VIDEO ..... 5 Hz to 100,000 Hz $^{+0}_{-3}$ dB
Output (Level/Impedance)
VCR/TAPE 1 REC, TAPE 2 REC ..... 200 mV/2.2 kΩ
Tone Control
BASS ..... ± 9 dB (100 Hz)
TREBLE ..... ± 9 dB (10 kHz)
Signal-to-Noise Ratio (IHF, short circuited, A network)
PHONO MM
VSX-D506S ..... 72 dB
LD/SAT, CD, VCR/TAPE 1, TAPE 2, DVD/TV, VIDEO
VSX-D506S ..... 96 dB
Signal-to-Noise Ratio [EIA, at 1 W (1kHz)]
PHONO MM ..... 75 dB
LD/SAT, CD, VCR/TAPE 1, TAPE 2, DVD/TV, VIDEO
VSX-D506S ..... 79 dB

* *Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers.*
** *Measured by Audio Spectrum Analyzer.*

VIDEO Section

Input (Sensitivity/Impedance)
LD/SAT, VCR, DVD/TV, VIDEO ..... 1 Vp-p/75 Ω
Output (Level/Impedance)
VCR REC, MONITOR TV ..... 1 Vp-p/75 Ω
Frequency Response
LD/SAT, VCR, DVD/TV, VIDEO
→ MONITOR ..... 5 Hz to 7 MHz $^{+0}_{-3}$ dB
Signal-to-Noise Ratio ..... 55 dB
Cross Talk ..... 55 dB

FM Tuner Section

Frequency Range ..... 87.5 MHz to 108 MHz
Usable Sensitivity ..... Mono: 11.2 dBf, IHF (1.0 μV/75 Ω)
50 dB Quieting Sensitivity ..... Mono: 16.8 dBf
Stereo: 38.6 dBf
Signal-to-Noise Ratio ..... Mono: 73 dB (at 85 dBf)
Stereo: 70 dB (at 85 dBf)
Distortion ..... Stereo: 0.5 % (1kHz)
Alternate Channel Selectivity ..... 60 dB (400 kHz)
Stereo Separation ..... 40 dB (1 kHz)
Frequency Response ..... 30 Hz to 15 kHz (± 1) dB
Antenna Input ..... 75 Ω unbalanced

AM Tuner Section

Frequency Range ..... 531 kHz to 1,602 kHz (9 kHz step)
530 kHz to 1,700 kHz (10 kHz step)
Sensitivity (IHF, Loop antenna) ..... 350 μV/m
Selectivity ..... 25 dB
Signal-to-Noise Ratio ..... 50 dB
Antenna ..... Loop antenna

Miscellaneous

Power Requirements
U.S. and Canadian models ..... AC 120 V, 60 Hz
Multi-voltage model ..... AC 110 V/120-127 V/220 V/240 V (Switchable), 50/60 Hz
Power Consumption
U.S. and Canadian models
VSX-D506S ..... 260 W, 360 VA
Multi-voltage model
VSX-D506S ..... 265 W
In Standby Condition ..... 2.5 W
AC Outlet (Multi-voltage, U.S. and Canadian models only)
U.S. and Canadian models
SWITCHED ..... 100 W (0.8 A) MAX
Multi-voltage model
SWITCHED ..... 100 W MAX
Dimensions
VSX-D506S ..... 420 (W) × 155 (H) × 374 (D) mm
16-9/16 (W) × 6-1/8 (H) × 14-3/4 (D) in
Weight (without package)
VSX-D506S
U.S. and Canadian models ..... 9.1 kg (20 lb 1 oz)
Multi-voltage model ..... 9.2 kg (20 lb 5 oz)

Furnished Parts

FM Antenna 1
AM Loop Antenna 1
Dry Cell Batteries (AA/LR6) 2
Remote Control Unit 1
Operating Instructions 1
Sub instruction manual (Remote Control Unit) 1

NOTE:
Specifications and the design are subject to possible modifications without notice, due to improvements.

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■MODEL VSX-456

SPECIFICATIONS

Amplifier section

Continuous average power output of 100 watts* per channel, min., at 8 ohms, from 20 Hz to 20,000 Hz with no more than 0.09 % total harmonic distortion (front).**

[Multi-voltage model only]
Continuous Power Output (DIN)
Front (1kHz, T.H.D. 1 %, 8 Ω) ..... 110 W + 110 W

Continuous Power Output
Front ..... 100 W + 100 W (1kHz, 0.8 %, 8 Ω)
Center ..... 100 W (1kHz, 0.8 %, 8 Ω)
Rear ..... 100 W + 100 W (1kHz, 0.8 %, 8 Ω)

Input (Sensitivity/Impedance)
PHONO MM ..... 2.8 mV/47 kΩ
CD, VCR/TAPE 1, TAPE 2, DVD/TV, LD/SAT ..... 200 mV/47 kΩ
Phono Overload level (T.H.D. 0.1 %, 1kHz)
PHONO MM ..... 100 mV
Frequency Response
PHONO MM ..... 20 Hz to 20,000 Hz ± 0.3 dB
CD, VCR/TAPE 1, TAPE 2, DVD/TV, LD/SAT ..... 5 Hz to 100,000 Hz $^{+0}_{-3}$ dB
Output (Level/Impedance)
VCR/TAPE 1 REC, TAPE 2 REC ..... 200 mV/2.2 kΩ
VIDEO OUT ..... 200 mV/2.2 kΩ
Tone Control
BASS ..... ± 9 dB (150 Hz)
TREBLE ..... ± 9 dB (10 kHz)
LOUDNESS ..... + 8 dB/+ 6 dB (100 Hz/10 kHz)
Signal-to-Noise Ratio (IHF, short circuited, A network)
PHONO MM ..... 72 dB
CD, VCR/TAPE 1, TAPE 2, DVD/TV, LD/SAT ..... 96 dB
Signal-to Noise Ratio [EIA, at 1 W (1 kHz)]
PHONO MM ..... 75 dB
CD, VCR/TAPE 1, TAPE 2, DVD/TV, LD/SAT ..... 79 dB

* *Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifier.*
** *Measured by Audio Spectrum Analyzer.*

VIDEO Section

Input (Sensitivity/Impedance)
VCR, DVD/TV, LD/SAT ..... 1 Vp-p/75 Ω
Output (Level/Impedance)
VCR ..... 1 Vp-p/75 Ω
Frequency Response
VCR, DVD/TV, LD/SAT → MONITOR ..... 5 Hz to 7 MHz $^{+0}_{-3}$ dB
Signal-to-Noise Ratio ..... 55 dB
Cross Talk ..... 55 dB

FM Tuner Section

Frequency Range ..... 87.5 MHz to 108 MHz
Usable Sensitivity ..... Mono:11.2 dBf, IHF (1.0 µV/75 Ω)
50 dB Quieting Sensitivity ..... Mono: 16.8 dBf
Stereo: 38.6 dBf
Signal-to-Noise Ratio ..... Mono: 73 dB (at 85 dBf)
Stereo: 70 dB (at 85 dBf)
Distortion ..... Stereo: 0.5 % (1 kHz)
Alternate Channel Selectivity ..... 60 dB (400 kHz)
Stereo Separation ..... 40 dB (1 kHz)
Frequency Response ..... 30 Hz to 15 kHz (±1) dB
Antenna Input ..... 75 Ω unbalanced

AM Tuner Section

Frequency Range ..... 531 kHz to 1,602 kHz (9 kHz step)
530 kHz to 1,700 kHz (10 kHz step)
Sensitivity (IHF, Loop antenna) ..... 350 µV/m
Selectivity ..... 25 dB
Signal-to-Noise Ratio ..... 50 dB
Antenna ..... Loop antenna

Miscellaneous

Power Requirements
U.S. model ..... AC 120 V, 60 Hz
Multi-voltage model ... AC 110 V/120-127 V/220 V/ 240 V (Switchable), 50/60 Hz
Power Consumption
U.S. model ..... 260 W, 360 VA
Multi-voltage model ..... 264 W
In Standby Condition ..... 7 W
AC Outlet
U.S. model
SWITCHED ..... 100 W (0.8 A) MAX
Multi-voltage model
SWITCHED ..... 100 W MAX
Dimensions ..... 420 (W) × 155 (H) × 374 (D) mm
16-9/16 (W) × 6-1/8 (H) × 14-3/4 (D) in
Weight (without package)
U.S. model ..... 9.1 kg (20 lb 1 oz)
Multi-voltage model ..... 9.2 kg (20 lb 5 oz)

Furnished Parts

FM Antenna 1
AM Loop Antenna 1
Dry Cell Batteries
[size "AA" (IEC R6)] 2
Remote Control Unit 1
Operating Instructions 1

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